Risks and rewards for Reagan on arms control, Page 9

Monday January 7 1985

D 8523 B

NEWS SUMMARY

GENERAL

Fear for Jews in Ethiopia in talks

thiopian Jews airlifted to Israel OCCIDENTAL PETROLEUM, 10th during the past two months ex-pressed fears for the miety of rela-tives remaining in Ethiopia. An estimated 8,000 to 10,000

secret mission, code-named "Opera-tion Moses," ended after worldwide publicity last week. The Israeli Council for Ethiopian Jewry attacked the Israeli Government for publicising the mission and expressed grave concern about tary System last week. While impossible remisals against those remaining. Page 2

Weapons for Jordan

Jordan is to receive sophisticated Soviet ground and air defence weapons early this year following an agreement concluded between the two countries last year. Page 2

Turk minister quits

Former Turkish Minister of State Ismail Ozdaglar, who resigned on Saturday was asked to quit after he faced a corruption charge. The semi-official Anatolian news agency quoted Prime Minister Turgut Ozal as saying he had personally asked Ozdaglar to quit. Page 2

Khmer visit

Son Sann, leader of the Khmer Peomade a surprise weekend visit to

Iran calls in UN

Iran asked the Buited Nations to send beauts to inspect residential areas it says dispression last, week him President Saddam Hus-seln arged the weekl community to end what he celled Tran's abnormal

Kennedy in Soweto

U.S. Senator Edward Kennedy toured the black South African township Soweto and later told reporters it was one of the most dis-tressing visits he had ever made. Page 2

Indian gas leak

Forty-two workers were recovering over the weekend after inhaling chlorine which leaked from Maduri Carts factory at Thortu in Kerala state, southern hodia. Tourist cam-

Bogota death toll

More than 200 Colombian police and military personnel were killed in clashes with left-wing guarrillas in 1984, according to the Defence Ministry in Bogota

Ferry protest

British Ferries, owner of Sealink (UK), protested to France that while its competitors Townsend while its competitors Townsend Thoresen and P&O Ferries are running normally to Calais and Bou-logne during the French seamens' dispute, its own ships are being

Egyptian mass

Egypt's Coptic Christians celebrated their Christmas at a midnight mass in Cairo said by Pope Shenou-

Surrogate birth

UK Social Services Secretary Norman Fowler plans urgent legisla-tion to outlaw commercial surro-gate motherbood. Police are proparing a report into the circumstances of the birth of a baby girl at a London hospital to a woman who says she has agreed to sell her to a childless couple for £6,500 (\$7,475). Justinian Page 20

Princess stays in

she is having a health check.

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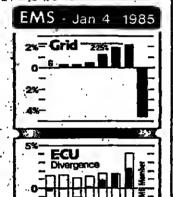
BUSINESS

Oxy and safety of Diamond Shamrock

No. 29,517

largest U.S. oil company, and Dianouncement would be made after a joint board meeting today. Page 14

CURRENCIES showed a mixed trend within the European Monetary System last week. While im



central rates, the Belgian franc, made a surprise weekend visit to Danish krone und irish punt all suffix key base of Angril, currently being attacked by the Vietnamese for cas occupying Kampuchea. Page 2 fell sharply in terms of the dollar but were also down in Ecu terms. This category included the D-Mark, giving rise to renewed confidence that the system will continue using current central rates and without attracting anhearable pressures on

traditional weak currencies. This was underlined by the position of the Belgian franc which remained -above the bottom-placed Dutch guilder, having previously been the weakest member throughout 1984. Currencies, Page 30

The chart shows the two constraints on European Monetary System ex-change rates. The upper grid, based on the weakest currency in the system, defines the cross rates from which no currency (except the lira)
may move more than 2% per cent.
The lower chart gives each currency's divergence from its "central tate" against the European Curren-cy Unit (ECU), itself a basket of Eu-

GOLD spot price fell below \$300 an ounce in New York on Friday for the first time since June 1982.

U.S. DOLLAR bonds outstripped all other major international capital market instruments in terms of total return last year, according to a Salomon Bros study. Page 11

TOKYO blue chips lost ground on Saturday, taking the Nikkei-Dow market average 12.90 lower to 11,545.16, but financial issues were among those still in demand, Lead-

DANISH Industry Minister Ib Stet-ter agreed to allow Flexplan, a civil engineering and construction com-pany, to retrieve DKr 25m (\$1.9m) from a deposit made against an ex-port credit guarantee. Page 14

ing prices, Page 24

NESTLE takeover of Carnation, U.S. prepared food company, was approved by four-to-one vote of U.S. Federal Trade Commission. No conditions were attached to the \$2.9bn acquisition by the Swiss food group.

FIRST CITY PROPERTIES, controlled by Canada's Belzberg family, increased its offer for Scovill. Connecticut-based diversified manwfacturer, from \$35 a share to \$42.50, valuing the company at

\$522m. Page 14 ATARI, troubled U.S. computer group, unveiled a new product line with which it hopes to make a "billi-on dollar comeback." Page 10

Princess Margaret, sister of Queen SALLIE MAE, U.S. quasi-govern-Elizabeth, spent a second night in ment agency, launched a novel Brompton Hospital London, where Y25bn Euroyen issue in the Eurobond market, Page 11

Geneva talks open under shadow of 'star wars' wrangle

BY ROBERT MAUTHNER AND PATRICK COCKBURN IN GENEVA

demand that the U.S. should suspend its research and development of anti-ballistic missile space weap-drei Gromyko, his Soviet counter-

> The talks are aimed at re-launching arms control negotiations beween Moscow and Washington. These were suspended at the end of 1983 when the Soviet Union walked out of the two main sets of negotiations because of the deployment of cruise and Pershing II missiles in

Geneva yesterday that he and Mr Shultz would try to reach a "com-mon understanding on the subject and objectives" of further arms con-trol negotiations. Mr Shultz would say only that he hoped for "negotia-tions on equitable and verifiable

the weekend of trying to change the perpowers by working towards an Strategic Defence Initiative (SDI), anti-ballistic missile system. Mosthe official name for "star wars"

BY PAUL CHEESERIGHT IN BRUSSELS

9.7m, was imposed on the state-owned British Steel Corporation.

Sacilor and Usinor of France were

fined Ecu 2.5m each and Salzgitter

UK. Cockerill Sambre of Belgium,

Hoogovens of the Netherlands and small companies in Italy and West

Senior Commission officials said quotas by 78,000 tonnes.

that the fines were imposed just be- . Production limitation has been

of West Germany Ecu 1.6m.

rejecting any agreement on offen-sive weapons unless it goes handin-hand with a limitation of defensive weapons in outer space.

The U.S. position, reached at a New Year's Day meeting between President Ronald Reagan and Mr Shultz as well as Mr Caspar Weinberger, the Defence Secretary, and Mr Robert McFarlane, the President'a National Security Adviser, is understood to consist of a twopronged approach.

This involves division of arms control negotiations into two separate forums - one for offensive and the other for defensive weapons with the link between the two pro-Western Europe. vided by "umbrella" meetings of setions.

Western Europe. vided by "umbrella" meetings of setions.

Ove

When it comes to spelling out this proposal in detail, Mr Shultz may well find that be faces Soviet opposition. For what the U.S. is basically looking for is a resumption of the suspended negotiations on a reduction in medium and long-range offensive nuclear weapons coupled Soviet President Konstantin with only very general talks on fu-Chernenko accused the U.S. over ture anti-missile defensive systems.

U.S. officials have made it very strategic balance between the su- clear that President Reagan's

EEC steel groups fined

THE EUROPEAN Commission has fore Christmas in order to clear the one of the key means used by the

counting heavily.

cession to Viscount Etienne Davigtroduced alongside stricter superviThe single largest fine, of Ecu non of Belgium, is Herr Karl Heinz sion of trade flow.

among the last acts of the outgoing

have transgressed quarterly output

quota regulations.

BSC, for example, is accused of

outstripping some of its quarterly

Narjes of Germany.

for exceeding quotas

DISAGREEMENT over Moscowa cow has been particularly firm in technology, would not be a "bargaining chip* in the forthcoming talks. The U.S. would not bow to Soviet demands that research into fushould be halted, particularly because these weapons would not be ready for deployment until the 1990s at the earliest.

The Soviet Union, on the other hand, fears that the development of space weapons technology will upset the military balance between the two superpowers as it has exist-ed since the late 1960's. Soviet officials have stressed that the 1972 anti-ballistic missile agreemen opened the way for successful negotiations on nuclear arms limita-

Over the past week, the U.S. Administration's press and information services have concentrated on persuading world public opinion that Mr Reagan's star wars technology is highly preferable, not least for moral reasons, to the concept of strategic deterrents through a balance of terror," represented by ar-senals of intercontinental ballistic

Continued on Page 10 Editorial comment; Page 8; Risks and rewards for Rengan, Page 9

Herr Narjes will be responsible

tight lid on quotas.

India to reform trade

move many protectionist controls, are expected to be introduced within the next few weeks. They will be er relaxation of industrial controls

These and other administrative and by Mr Rajiv Gandhi, the Prime Minister, in his first national broadcast since his landslide general election victory. The changes promise the most wide-ranging attack for many years on the basic prob-lems inhibiting India's economic de-

In an attempt to heal breaches etween Sikhs and Hindus which have grown wider in recent months. Mr Gandhi also said he was giving the "utmost priority" to finding a so-lution to the problems of the Pun-jab, the Sikhs' home state. A ministerial committee is expected to pro-

duce settlement proposals quickly.

Mr Gandhi announced that the Government was developing a new education policy and reviewing procedures to speed up official decision making, reduce public grievances and improve public sector

The aim would be to make "re-

In a reference to his attack on

All the announcements in the weekend broadcast are in line with Mr Gandhi's earlier pronouncements but the speed and range of his proposals has surprised many observers in a country not used to

rapid change.
The trade reforms, aimed at boosting India's flagging export growth, will be based on a report delivered to the Prime Minister last fined EEC steel makers a total of decks for the arrival of a new Com- Commission, in line with policy laid Ecu 19m (\$13.4m) for exceeding pro- mission. duction quotas in 1982-83, a period when demand was slack and companies were trying to keep output levels as high as possible by disweek by a group headed by Mr Abid Hussein, Commerce Secretary, Significantly, Mr Hussein has been asked to stay in his job even though he has reached the Civil Service re-

Decisions on the fines were for administering the phase - out of His group has recommended such controls when, at the end of Commission. They are routine, offi-cials stressed. Between four and six line for reverting to a free market Fines of less than Ecu Im were imposed on Manchester Steel in the nounces fines on companies which subsidies to steel companies which nies will again be outlawed. Despite higher demand the Comother duties.

nission has continued to keep a duced for export earners. West Germany company pays \$4.1m U.S. fine, Page 3

India battles to resume tourist industry, Page 2

policy

FAR-REACHING changes in India's trade policy, which will refollowed by major reforms in the organisation and management of publicy owned industry and by oth-

sults take precedence over proce-

corruption, Mr Gandhi said: We shall prevent extraneous interference in the functioning of public

tiring age of 58 and was also appointed at the weekend to the Plan-

abolishing many physical controls, which limit the number of products and components a company can produce or import, and replacing them with fiscal-based import and Taxation would be drastically re-

Britain set to review oil price policy

method of setting North Sea oil and West Texas Intermediate, the prices, in spite of the fact that cold weekend weather across most of Europe should hab to obtain the cold was a \$25.18 for January delivers. Europe should help to stabilise falling spot prices when markets re-open today.

The ministers must decide

whether to continue to allow the British National Oil Corporation (BNOC) to set official prices higher than the free market price - as the Organisation of Petroleum Exporting Countries wants - or to switch to a free market price and incur the risk of a price war with Opec.

The first severely cold weather of the winter will raise oil demand in Europe and, if it lasts, could put pressure on low levels of stockholding. It seems unlikely, however, that the weather alone will be sufficient to bring spot prices close to the official price set by BNOC in the final quarter of last year.

The cold snap has not yet spread to North America, which enjoyed unseasonably warm weather over Christmas. U.S. temperatures yesterday were close to or slightly above normal and the forecasts sug-gested there would be little immedi-

On Friday Brent Blend, the main North Sea crude, closed at \$26.05 a barrel in the New York market -

BRITISH GOVERNMENT minis- \$2.60 below the official BNOC price ters are expected to meet later this in the final quarter of 1984. Domes week to discuss the UK's future tic U.S. crude prices were also weak

> ery.
> British ministers had hoped that, by the time they returned to their desks this week, the effects of Opec's new measures for policing its oil output, combined with a hardening of the winter, would reduce pressure for a further cut in oi

So far BNOC has refused to set a price for its January purchases of crude from the North Sea, although in order to comply with normal payment practices it will have to do so by the end of this month at the lat-

BNOC is selling its January oil at spot-related prices, probably at an average of between \$27 and \$27.20 a barrel. If it continues to pay for oil at its official price it will make heavy losses on each of the 800,000 barrels of oil it trades each day.

Ministers must decide shortly whether to permit this situation to continue, which will mean a further request to parliament for funds to cover BNOC's trading losses. Minis ters are keen to avoid the political embarrassment of such a request

Continued on Page 10

UK interest rates face crucial week

BY MAX WILKINSON IN LONDON

of heading off a rise in interest sistance to the money markets at rates this week are hanging in the unchanged dealing rates. balance amid renewed uncertainty strength of sterling.

easy about recent monetary trends. cent, well above base rates which This anxiety centres on whether are currently between 9% and 9% the Conservative Government will per cent-be forced to step up its funding ef-As trace

Throughout last week the Bank of England attempted to damp down pressure on short-term inter-

THE BRITISH Government's hopes est rates by prompt and liberal as-

Nevertheless the three-month inabout oil prices and the underlying terbank rate, the most important determinant of the clearing banks The key decisions are likely to be base lending rates, rose through taken tomorrow or on Wednesday most of the week, mainly in reafter the December money supply sponse to a weakening of sterling Although these figures are ex- of some easing of interest rates on pected to be distorted by the con- Friday, when the pressure came off timuing ripples from the sale of Brit-ish Telecom in November, London covered, the three-month rate endfinancial markets have become un- ed the week at just under 10% per

forts with consequent pressure on medium and long-term interest same unconformed with the situation in July when interest

Continued on Page 10 Money markets, Page 30

Inlop's minority shareholders hay oppose restructuring plan

ET CHARLES BATCHELOR IN LONDON

shi eholders to its capital restructu'ng plan despite agreement with its rigest shareholder, Pegi Malay-

Pegi, a holding company with a 26 per cent stake in Dunlop, reached agreement at the end of last week with the new Dunlop board headed by Sir Michael Edwardes on the broad form the res-tructuring will take. The Dunlop board hopes finally to approve the

long-delayed plan on Friday.

The reorganisation is expected to lead to Dunlop's 47 banks – owed more than £350m (\$399m) by the company - converting about £70m worth of debt into preference shares with a similar sum to be raised by means of a rights issue.

further asset sales immediately despite widespread speculation that believes his association can get the its U.S. and South African tyre opsupport of enough votes to block erations would be sold off as part of any resolutions put to an extraordithe reconstruction deal. However, it nary shareholders' meeting. Resoalready has an agreement to dis-cuss the sale of National Tyre Ser-vote in favour to be approved. vice, its UK tyre sales business, to Sumitomo Rubber Industries. With 28 per cent of Dunlop's equi-ty held in American Depositary The restructuring plan will lead Shares by U.S. shareholders —

Dir ILOP HOLDINGS, the debt-rid-de: tyres and rubber products ing shareholders' interests in Dun-gr. m, may still face determined op-por tion from smaller UK and U.S. to a considerable dilution of exist-ing shareholders' interests in Dun-lop and may provoke a revolt by the Dunlop Shareholders' Association, stake of around 10 per cent, the asrepresenting smaller UK shareholders and some U.S. investors. Professor Robert Pritchard,

spokesman for the association, said yesterday. On the face of it the pro- more formal structure if it decides posals seem grossly inequitable to to oppose the latest proposals. The the existing owners of the company. aim was not to force Dunlop into re-If that is true, we shall muster as ceivership but to secure a fairer much support as we can and will deal for its long-suffering shareholders, Professor Pritchard Sir Michael Edwardes is expected The association claims to have

proxies from the owners of 2m Dun-lop shares, support from the owners ciation before next Friday's board of a further 500,000 and the backing of a U.S. investment adviser, Mr Ronald Haave, whose clients have 7.3m shares. These shares amount to 6.8 per cent of Dunlop's equity.

aised by means of a rights issue.

Despite Pegl's decision to swing
Dunlop is not expected to make its 26 per cent holding behind the Dunlop board, Professor Pritchard

sociation believes it could thwart

the company's plans,
The association plans to canvass other shareholders and adopt a

meeting to explain the proposals.

Explaining Pegi's decision to back the Dunlop plan, Samuel Mon-tagu, its merchant bank adviser, said: "At the end of some very prolonged and complicated negotia-tions they reached the view that the package was the best that could be worked out in this situation. Pegi was keen to minimise the dilution

Dunlop's shares have been suspended from trading on the London Stock Exchange for the past month. At 25p the market valuation of the company is just £36m.

of the interests of existing

Roberto, one of our finest chefs, has a theory that a conference without garlic stands a greater chance of success. So prior to the event, should anyone order his Chicken Supresso, Spaghetti Vongale, Veal Carpi or Fegato Verona, it will arrive without that one ingredient revered by Italians. A sacrifice made in the interests of business. And not without its dangers. "If Momma found out, she would kill me," confides Roberto.

Roberto has his own special ideas on what makes a conference successful

We must say that his concern for theatmosphere at conferences is shared by the rest of us here at Metropole Hotels.

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shareholders."

Management:

Technology: putting finger Lombard: how to boost the Editorial comment: arms Lex: UK pension funds' talks; state industry 8 years of plenty 10 UK: balancing act on United Arab Emirates: investor protection 8 Survey Section III

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Airlifted Ethiopian Jews fear for safety of relatives

BY DAVID LENNON IN TEL AVIV ETHIOPIAN JEWS airlifted to Is- vember when the extent of the famrael in a rescue operation in the ine was known.

The rescue in the resc fears for the safety of their relatives in Ethiopia, after worldwide publicity about the operation.

The Israeb Cabinet held a lengthy debate yesterday on how to rescue the Jews remaining in Ethiopia and the Sudan, and about how to secure their successful integration in-

in the framework of a ministerial defence committee, which prohibits the publication of any details of that debate.

The Israeli Council for Ethiopian Jewry attacked the Israeli Government for having publicised the secret mission, code-named "Opera-tion Moses." which has airlifted almost 7,000 Jews to Israel since the

The council expressed concern about reprisals against the estimated 8,000 to 10,000 Jews still left in Ethiopia or in Sudanese refugee camps, where they are waiting for

stopped, at least temporarily, by the decision of Trans European Air-ways, the Belgian charter company ways, the beginn charter company carrying out the airlift to suspend the operation. The last TEA flight carrying immigrants from Ethiopia arrived in Israel on Saturday.

An official of the Jewish Agency, the body which deals with immigra-The Cabinet discussion was held iton, said yesterday that other airlines had expressed willingness to take over the airlift, but pointed out that was not the key problem. Sudan had apparently refused to be

used as a pick-up point.

The airline said the widespread publicity about what had been a secret operation had made it impossible to continue.

The Cabinet, and especially Mr Shimon Peres, the Prime Minister, has been sharply criticised in many quarters for having publicly confirmed the existence of the airlift and thereby having created the sit-uation which led to its suspension.

The right-wing opposition party, Tehiya, has tabled a motion of no-About 7,000 Jews bad been secret- confidence in the Government bely transferred to Israel during the cause of the publicity which it gave past three years. This project was to the airlift to rescue Ethiopian stepped up at the beginning of No- Jews.

Warsaw outlines plans for increases in food prices

THE POLISH Government outlined plans over the weekend creases.

Last January the Government Last January the Government in Morch, but colled for a montb-long period of consultations on the increases to curb

worker unrest.

The Government gave no advance notice of food price increases in 1970 and 1976, spark-Ing peolests in Gdansk and other cities, or in 1980 when nationwide strikes led to the birth of the now-outlawed Soll-

darity free trade union.

A Government communique published in all major newspapers said price increases were necessary "to make up for the general growth in the costs of food production," but said the rises could eliminate the rationing of some basic foods.

The Government outlined three sets of proposed price rises for "social consultations" that would raise prices for meat by as much as 15 per cent and for other basic foodstuffs from 3 near the 20 near cent.

The three proposala ranged from large price increases and an end to most rationing except for meat to smaller price rises with most rationing continued. At the same time, the Government announced that prices for coal, electricity and gas would

introduced food price increases averaging 10 per cent without riggering serious unrest follow-ing unprecedented public consultations conducted by new official trade unions, the stateoffice for prices.

Solidarity underground leaders urged workers to resist the price increases last year but never called for demonstrations.

another development Pollsh newspapers published the Government's draft proposals on voting regulations for parliamentary elections in the autumn. The elections were postponed last yeor,

Under the peoposals, there are to be two candidates for most of the 460 seats in parliament, but only the Communist Party and other official organisations have the right to select The proposed voting regula-

tions are similar to those for last June's local council elecsaid turnout averaged 75 per

In announcing the consulta-Increase 20-30 per cent in April. tions on food price rises, the The Government said that Government said it would hold under the 1985 central plan, a meeting on Thursday with retail prices oversll would increase 12-13 per cent and would trade union organisation.

Charter 77 members freed

the Charter 77 human rights sources said. There was no group, detained in Prague on official comment on the action. Thursday four days before the elgbth anniversary of the up for questioning frequently charter's publication, bove been in the past. The group issues released. Reuter reports from statements on buman rights

The five men and two women Encluded dissident author Mr Vaclav Havel, charter officials Vaciav Benda, Mr Jiri Rumi and Ms Jana Sternova, and exjournalist Mr Jirl Dienstbier.

SEVEN prominent members of day of their detention, emigre Signatories have been picked and other Issues, which are sent to the Czechoslovak outhorities and made available to Western

> lts latest statement, issued last month, accused the official Czecboslovak media of not telling the truth and keeping people in ignorance of

Mr Benda, Mr Ruml, and Mr Havel and Mr Dienstbier were released after police questioning. The other were allowed to go home on the group's manifesto appeared in Western newspapers on January 7 1977.

An important message to shareholders from **Seltrust Holdings** Limited.

(INCORPORATED IN WESTERN AUSTRALIA)

By now, you should have received a booklet outlining the terms of a proposed Scheme of Arrangement between Seltrust

Holdings Limited and its members. Members are reminded of the meetings to consider this Scheme and a related reduction of capital of the Company to be held on 22 January 1985 at the Sheraton Perth Hotel, 207 Adelaide Terrace, Perth, Western Australia commencing at 10.00 and local time. If members wish to appoint a proxy to to attend the meetings, proxy forms and any power of attorney under which they are executed must be lodged at the registered office of the Company, 200 Adelaide Terrace, Perth, Western Australia, 6000, not less than 48 hours before the relevant

niceting.

If you have not received a copy, please contact the Company Secretary at the registered office, telephone Perth, Australia 325 4511 or telex AA93788, who will then arrange to have a further copy despatched urgently to you.

Copies of the document are also available from the Company Secretary, BP Minerals International Limited, Selection Trust Building, Masons Avenue, Coleman Street, London EC2V 5BU, telephone 01-606 6000 telex 886852. telephone 01-606 6000 telex 886852.

U.S. car makers raise sales by 17%

By Peul Taylor in New York U.S. CAR MAKERS sold more

than 7.95m domestically pro-duced vehicles last year, o 17 per cent increase over 1983.

The late December sales figures, however, showed a small and slightly disappointing 2 per cent decline on the previous year. The seasonally adjusted annual sales rate in the final days of the seasonally adjusted annual sales rate in the final days of the year was 8m, compared with 8.3m units in the 1983 peri-

The decline did not detract from what has been a bumper selling year for most of the six domestic U.S. car makers. It has been their second consecutive growth year after the recession.

The biggest gains last year were made by Chrysler, which saw sales of domestically produced cars increase by 36 per cent to 849,796 units and by Honda's U.S. operations which sold 133,601 cars compared with 50,402 in 1983.

Among the leading motor manufacturers, General Motors posted n 13.5 per cent year-on-year gain, selling 4,600,512 cars last year compared with 4,653,561 in 1883 and holding on to a commanding 56 per cent market share, compared with 59.6 per cent in 1983. Ford reported a 26 per cent increase in 1984 sales to 1,979,317 cars.

Of the six domestic manufacturers, only American Motors and VW showed slight declines in duced cars they sold.

Last year also proved a good one for the importers. BMW posted a 19.7 per cent gain in sales to 59,243, while Jaguar's sales grew 14.1 per cent to 18,044.

Among the Japanese car man-nfacturers the impact of U.S. Im-port quotas was, however, hegin-ning to be felt. Toyota, for exam-ple, reported that sales in the U.S., limited by import restric-tions, grew by a nominal 0.4 per cent to 557,981 units last year.

The United Anto Workers' council of delegates representing Chrysler members have voted against insisting on early con-tract talks. The UAW's contract with Chrysler is due to expire in

Swiss airforce to exercise in Sardinia

By Anthony McDermott in Berne HE SWISS airiorce begin 11 days of exercises in Sardinia today—the first by Switzerland entside the ter-ritories of such neural partners as Austria and Swe The fact that it takes place

in a Nato country has evoked criticism from those who fear that Switzerland's armed forces are gradually being integrated into Nato'a military system. West German, Italian, French, British and American ptiots have also trained at the Decimomannu base on the island, where strict security is in force for the Swiss visit. Colonel Erust Wyler, the

airforce commander, however insists that this exercise involving six Mirage IIIs, six F-5 Tigers and 23 pilots not in military uniform—is a purely commercial bilateral deal with the Itatian Government, costing about SwFr Im (\$333,000), and with the Cubic Corporation (CC) of the U.S. The company runs sophisticated facilities for ground allack and dogfight exercises at the base which can be recorded, replayed and analysed.

One additional reason for

moving to Sardinia is the number of restrictions im-posed on air force flying in Switzerland.

Turkish minister to face corruption probe

By David Barchard in Ankara ONE OF Mr Turgut Ozal's "inner Cabluet," Mr Ismail Ozdagiar, Minister of Stata, has resigned and is being investigated on corruption charges, the Prime Minister's office announced at the week

end. Mr Ozdaglar, 24, was the Mr Ozdaglar, 24, was the youngest member of Turkey's Ozal government and was used by the Prime Minister as a tronhle shooter in energy problems.

This is the second set of Government resignations in less than four months. lessthan four months

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WORLD STOCK MARKETS CHECK EVERY DAY IN THE FT

India battles to rescue tourist industry

tion campaign to rescue its eco-nomically vital tourist industry. The hope is that, with politi-cal continuity demonstrated by last month's general elections— the most conclusive and peace-ful of the eight held since inde-

INDIA IS launching a post-elec-

pendence in 1947 — the country can reverse the slump in tourist arrivals. They have declined by a quarter since Mrs Indira Gandhi's assassination in October.
If the campaign proves un-

If the campaign proves unsuccessful, not only will much important foreign currency have been lost, but the industry will have to face nearly a year of uncertainty before the high season resumes next October. Tourism, with on annual income of £950m, is India's single largest net earner of foreign exchange. Dr Nitish Sengupio, Director General for Tourism at the Ministry for Tourism and Civil Aviation, said in an interview at

the weekend that the Government was making a major effort to counter the "adverse publicity" arising from the assas-sination, the subsequent Hindu-Sikh violence and the Bhopal

day decided that a commission of inquiry must be set up m investigate the bank share crisis of October, 1983, in which

thousands of Israelis lost their savings and which threatened the stability of the country's

The Cablust appointed a ministrial committee, headed by Mr Shimon Peres, the Prime

Minister, to decide on the terms

of reference of the commission.

The decision to launch a full-scale inquiry follows a scathing report by the State Comptroller about the behaviour of the

BY OUR FOREIGN STAFF

sticated ground and air defence weapons from the Soviet Union early this year, General Sherif Zeid hin Shaker the Jordanian

army commander announced over the weekend. He said the deal was con-

lowing the rebuff over stingers,

Jordan looked elsewhere and

and Italian defence officials, as

chean nationalist guerrilla leader, made a surprise visit over the weekend to his key

base of Ampti currently being assaulted by the Vietnamese forces occupying Kampuchea.

Mr Son Sann, who is President of the Khmer People's National Liberstion Fcont (KPNLF), one of three resistence groups abouting the Vietnames.

well as the Soviet Union.

commercial banks.

DR MANMOHAN SINGH. Governor of the Reserve Bank of India, bas been appointed Deputy Chairman in charge of the Planning Commission as part of o revamping of the commission carried out by Mr Rajly Gandhi at the weekend,

Dr Singh is to be succeeded as hank governor by Mr R. N. Malhotra, Indio's executive director at the World Bank In Washington.

The changes, which incinde the appointment of three new members, are aimed at strengthening the expertise of the Planning Commission

for themselves that "everything has returned to normal. About £45,000 has already been set aside for the television campaign, initially aimed at Britain, and another £60,000

has been opproved, holf of which is to come from the

Government with the rest being provided by tour operators. In addition Dr Sengupta says the Ministry has been assured that its 1986 tourism budget of Rs 60m (about £4m) is to be

ond other state agencies, which allowed the commercial banks

to monipulate the price of their

shares on the Tel Aviv stock exchange for 11 years.

A massive run on bank ahares in September and early Octo-

ber, 1983, by a public fearing a large devaluation of the shekel, left the banks unable to raise sufficient funds to buy up

their shares and thus maintain

Trading on the stock exchange was suspended on October 6, 1983, and the Government was forced to come

way. Mr Muharak, on his second

visit to Jordan in less than three months, was greeted at the airport in the Red Sea port

of Aqaba by King Hussein. The two men went to the

cluded last year. It followed king's nearby summer palace the refusal of the U.S. last year to sell Jordan anti-aircraft "stinger" missiles because of cussion hetween the King and Sim Civilia Androutis the neadquaters in mainta said the rebuls of the New People's for talks. No details were given. Army (NPA), the mittary wing of the Communist Party of the Philippines, enlered the fishing size of the New People's for talks.

pean initiative for peace nego-

tiations between Israel and its

The Mnbarak-Hussein talks

also followed a two-day session

a dry season offensive along the western Kampuchean

In preparation for the ex-pected assault trenches and for-

tified bunkers bave been built and guerrillas have received fresh supplies of Chinese anti-

Son Sann azid that since the

newspaper Nhan Dan claime

about 10,000 guerrillas and several of their sanctuaries have been put out of action

border last November.

tank guns and mortars.

their price.

THE ISRAELI Cabinet yester- Government, the Central Bank

Jordan to receive defence

JORDAN IS to receive sophi- Middle East peace effort under-

cluded last year. It followed king's nearby summer palace the refusal of the U.S. last year for talks. No details were given.

Jordan has traditionally been Italian Foreign Minister Italy equipped by the U.S. but fol- has been pressing for a Euro-

The weekend also saw a sur- King Hussein beld with Mr prise visit 10 Jordan by Mr Yasser Arafat, the Chairman of

Hosni Mubarak, the Egyptian the Palestine Liberation Organi-President for talks with King sation (PLO) with whom the

Husseln amid increasing monarch hopes to forge a Jordanian efforts to get a new common Middle East poticy.

Son Sann makes surprise

MR SON SANN, the Kampu since Vietnamese troops began

visit to battle zone base

held talks with British, French Arab neighbours.

weapons from Russia

Israeli cabinet orders bank crisis inquiry

whose reputation as an effective arm of the Government bas slipped in the past few years. The Commission will soon finalise India's new seventh five year plan The Prime Minister is the chairman of the commission and the planning minister is often the deputy chairman.

The appointment of Dr Singh, a bigbly respected former finance secretary, should bring new onthority to the organisation.
Dr Arjun K. Sengupta, special secretary in the Prime Minister's office will succeed

Mr Malhotra ot the World

Tourism and Civil Aviation.

The main problem, he says, is to convince U.S. travellers, the "big spenders," that normolity hod returned and that the Bhopal Incident was a very isolated one. "Somehow" Dr. iaolated one. "Somchow," Dr Sengupta says, "we must convince the Americans that not everything east of Connecticut has been contaminated."

no real evidence that a signifi-cant upturn is imminent. There is no reason why things abould not improve this month and next." said a leading hotel chain executive. "but we will just have to wait and

without a shorp upturn, how-ever, the outlook will remain grim. A slowdown in cancel-lations is becoming opparent but figures for December are expected to be little better than November, which showed a 26.3 per cent fall in tourist arrivals compared with the same month

per cent tall in tourist arrivals compared with the same month a year before.

Bookings at hotela aimed of the business traveller are holding up ("We have had a big increase in businessmen wanting to establish contacts with the new government," said a botel executive), but tourist hotels in areas where accommodation is readily avallable are still experiencing occupancy rates of betwen 60 and 80 per cent against the 100 per cent norm for this time of year.

Registrations for Inter-national conferences were reportedly down by 70 per cent over the past two months, one licity" arising from the assassination, the subsequent HinduSikh violence and the Bhopal
gas leak tragedy.

The Government is to expand
Its first-ever foreign television
advertising campaign, send high
level delegations abroad and
brings groups of journalists ond
tour operators to India to see

In addition Dr Sengupta says
thas been contaminated."

With India now hack to
normal, however, Mr Sengupta
is confidence that the country's
tourist industry will resume its
buoyancy well before the current high season ends in March.
Hoteliers and tour operators
are also expressing optimism
to have lost Rs 10m in
but admit that there la as yet
November alone.

sible could be forced to resign

plantation also in the southern Phllippines and confiscaled the

arms of the estate's security

Communist insurgency has been identified by the Govern-ment as the major threat to the

country's security.
There is confusion as to how

vinces, but milltary documents

vinces in the country.

Philippine military admlts that

the NPA is now daring enough

to launch attacks and ambushes

with 250 to 300 armed men.

to the rescue of shareholders by guaranteeing the dollar-linked price of the shares if held for five years. The comptroller estimated that the rescue operation will eventually cost the Government \$2.5bm (£2.2bm).

The computable's report

The comptroller's report, published on December 31, 1984, not only castigated the behoviour of the Treasury and the Bank of Israel but it also lashed out at the banks for what is described as "manipulative regulation" of their shares.

hares, court officials said, Reuter Some ministers opposed the reports from Tel Aviv.

Philippine rebels seize

BY EMILIA TAGAZA IN MANILA

occupied a southern Philippine

village for two hours last Friday and seized arms and ammuni-tion from local policemen, militiamen and security guards. The Philippines armed forces headquarters in Mapila sald the

Del Sur province, disguised in military uniform.

tion, and some office equipment.

escaped in a cargo truck, a jeep

and a motorcycle they com-mandeered from the village,

The military said the rebels

ammunition from village

ABOUT 500 Communist rehels NPA group attacked an oil palm

They took 100 firearms, indicate they are gaining thousands of rounds of ammuni-ground in 50 out of the 73 pro-

The raid on Tablna village is the latest major operation alaged by the NPA in an apparent effort to build up its ments claim full-time soldiers

Eastern Airline directors

back wage cuts decision

EASTERN AIRLINE'S outside special board meeting. The

directors have given the U.S. move seems likely to increase airline's management a strong tension between the airline and

sial unilateral decision to
extend a package of employee
wage concessions which were
largest union branch which

due to expire on December 31. represents 12,000 members of The backing for Mr Frank the international machinists Borman, Eastern's chairman, and aerospace workers, said

arsenal. Last month another of up to 20,000.

endorsement for its controver- its unions

guards:

Peru starts paying overdue interest

By Peter Montagnon.

\$52m (£45m) in overdue Interest to its commercial bank creditors in an effort to keep its orrears from reaching beyond the critical 180-day mark.

mark.
The payment, which Peru had nriginally promised to make before the end of the year, would bring its interest payments up to date es of the first week of July last year.

week of July last year.

Bankers hope that it will be enough to prevent a further official downgrading of Peru's dehts by U.S. government agencies responsible for supervising the banking system. Such a move could mean banks being required to set saide loss provision against their exposure to Peru.

exposure to Peru.

But with remaining arrears of about \$200m the committee of leading creditor banks, chaired by Citibank, is atill seeking a meeting soon with the country's new finance minister, Sr Garrido Lecca. a 43-year old former banker who replaced Sr

A deadline of January 14 is looming when current temporary arrangements extending immediate debt maturities runs out. One school of thought on the advisory committee is that these arrongements should only be prolonged for a further month to keep pressure on Pern to settle its ouistanding

arrears.
An International Monetary Fund mission is scheduled to visit Peru later this month, but bankers hold out little bope of a permanent deal to sort out the country's foreign debt problems before the national elec-tions scheduled for April 14.

Neves outlines plans for government.

By Ann Charters in San Paulo WITH JUST over a week to run before Brazil's indirect presidential election the front running candidate, Sr Tancredo Neves, is touring the country revealing more of his plans for

a new government. He has expressed both pooulist sentiments of guaranteeling access to land with credit and technical assistance for impover-ished millions in Brazil's northeast and spoke in favour of a sironger role for unions and workers in the new government. Yet he has balanced these

strong the NPA's influence is in the countryside, and as to how real is the threat it poses on He ruled out a moratorium on Government control in the pro- the payment of Brazil's debt as a step not worthy of the sixth largest power with import-ant international, economic and political responsibilities. Speaking before 600 union leaders this weekend, Sr Neves

announced the start of a "new era" for the country that would be based on a democratic constitution that assured the rights and tiberties of the people.
In his speech, Sr Neves re-

ferred to military governments in place since the revolution in 1964 as having brought the country 20 years of "suffering, mutilation, confiscation and repression."

As part of his campaign for the presidency Sr Neves bas promised to call a constitutional assembly at the latest in 1986. Responding to a lengthy document from the unions outlining their members' interests, the presidential candidate agreed that workers should have a larger participation in the "destiny of the country," Ho indicated his willingness to see workers included in the

management of social security programmes, national housing programmes and public sector peogrammes and puone sector companies.

The economic committee com-posed of Conservatives and Liberals that Sr Neves set up to draft comprehensive options for an economic ulen for his

for an economic plan for his government is expected to sub-mit its proposals before the in-direct election on January 15. Spirit .

ance groups fighting the Vict-namese-backed regime of Heng came at a special board meeting after the meeting, "I am called to consider the manage extremely disappointed. I ment's decision to extend 18 to advised them that they left us Vietnamese offensive began 103 guerrillas bad been kitled and Samrin in Kampuchea, told an 467 wounded. "Our losses run into hundreds, but theirs run into thousands," be said. 22 per cent wage cuts agreed by the Airline's unionised om-ployees last year in return for impromptu press conference in Ampil close to the Thai border that the Vietnamese might attack again loday to mark the no alternative but to go to ployees last year in return for a 25 per cent equity stake. The move has angered Eastern's union leaders who also meeting that the 'historic' conmittee, said after the board meeting that the 'historic' conmetting tha Vietnam's communist party sixth anniversary of their intervention in Kampuchea. Ampil, the command headquarters of the KPNLF, is its

Kennedy sparks controversy in S. Africa BY ANTHONY ROBINSON IN JOHANNESBURG

only major base atill left intact during the past year.

U.S. SENATOR Edward Kennedy began a tightly scheduled tour of South Africa yesterday by ottending Mass at St Pius's Church in the black township of Soweto and addressing black workers at an all-male hostel for migrant workers.

He told the workers that a system which forced them to choose between bying with thoir familles or providing for them was both barsh and un-The eight-day visit, which re

traces an cerller pilgrimage to South Africa made by bis lata hrother. Senator Bohby Kennedy, 18 years ago, bas stirred up controversy among black political groups. It has also aroused Government fears that it wilt lood to stronger U.S. pressure for reform of the apartheid system and add fuel to the disinvenment campaign by U.S. and other foreign com-

On his arrival at Johannesourg's Jan Smuts Airport on
Soturday night, Senator Kennedy was greeted hy Anglican
Archbishop designate Desmond
Futu and by the Rev Alan
Boesak, president of the World
Alliance of Reformed Courches
and leader of the anti-apartheid
United Democratic Front

Mr Walter Sisulu, who are servalso take him to north of
Bloemfontein, where be will
meet Mrs Winnie Mandelo, the
banned wife of the ANC leader,
before fixing to Durban.
There he will meet the Rev
Dennis Hurley, the Archbishop
before visiting two black oreas
whose inhabitance of Durban, who faces trial for
bis criticism of police action in
Namibla and who recently burg's Jan Smuts Airport on Soturday night, Senator Kennedy was greeted by Anglican Archbishop designate Desmond Tutu and by the Rev Alan Boesak president of the World Alliance of Reformed Churches and leader of the anti-apartheid United Democratic Front

Ha was also met by a group of demonstrotors from the Azanian People's Organisation (Azapo), a radical black-(A230), a radical black-consciousness group, who waved bannors saying "Kennedy go home," and accused him of furthering bis future presiden-ital ambittons, rather than the interests of the oppressed black majority

and opposition leaders, includ-ing the leaders of the hanned African National Congress (ANC), Mr Nelson Mandela and

threatened with removal.

He is also scheduled to meet prominent white businessmen, including Mr Gavin Relly, the chairman of Anglo American

majority.

Sen Kennedy has asked for meetings with both Government and opposition leaders. ressel two-day strike in the meverick stance and semi-Transvaal in November and who independent status, which com-face lengthy political trials mands a mixture of respect and later this month.

Mr Kennedy'a ltinerary will black alike.

Namibla and who recently released a report which strongly criticised alleged police brutality during the rlots which erupted in the Vaal trade unionists.

Among the union leaders are Chief Gatsha Buthalezi, tha the block Mine Workers' Union, Mr Piroshaw Camay, and other turn KwaZulu into another leaders of the moin block with the block with the block with the block with the block mine with the block with the block with the block with the block with turn KwaZulu into another turn the block with the

"homeland," while criticising the UDF and other radical black organisations, has given him a

Towards the end of the week Sen Kennedy will visit Cross-roads, in Cape Town, a block squatter camp of Third World squator, which has been a scene of sectarian violence over the New Year, and Rhayelitsha, the peoposed new town for 500,000 blacks, which the Government is building on the bleak sand dunes of the Cape flats.

While in Cape Town, Sen Kennedy will meet Dr Gerrit Viljoen, the Minister for Cooperation, Development and Education.

Education.

It is not yet known whether sen Kennedy will also meet President P. W. Botha, though this is expected.

After Cape Town, Sen Kennedy files to Windhoek in Namibia for talks with leaders of the South West Africa People's Organisation (Swapo) before flying back to Johannesburg for a final church meeting in Soweto on Sunday

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W. German company pays \$4.1m fine to U.S. Treasury

BY NANCY DUNNE IN WASHINGTON

THE U.S. Treasury added \$4.1m The same operation led to the to its coffers last week after seizure of more than \$100,000 FAG Kugelfischer of West of counterfeit Jordache jeans Germany, along with its from Hong Kong and S40m Ontario and Connecticut companies, agreed to pay one of the largest civil penalties ever collected by the U.S. Customs

descriptions of hearings and components, imported from 1972-18, a practice which cost the U.S. Government more than sim in import duties. Under U.S. law, fraud penalties can total four times the estimated last revenue.

lost revenue.
Customs officials, suspecting that millions more dollars are being lost through commercial import frauds, have cast a wider net for violators. With Opera-tion Tripwire, launched in 1983, they have heen producing bigger and bigger catches. Under the crackdown Thyssen Under the crackdown Thyssen Steef was found to have imported cold rolled steel from Thyssen Stahunion of West Germany during 1978-81 and had falsely described its shipment as a cheaper grade of steel to evade both Gustoms duties and a dumping inveatigation by the Department of commerce. Thyssen agreed to a settlement of \$3.25m a settlement of \$3.25m.

Service.

Service.

The settlement was reached after an investigation by customs concluded that FAG bad given false invoices and descriptions of hearings and components imported from 1972-78, a practice which cost merchandise, worth about \$30m. the U.S. Government more than \$1m in import duties. Under apparel.
The Customs effort was

initiated as imports, boosted by the strong dollar, made dramatic new inroads in U.S. markets. Mr John Walker, assistant Secretary of the Treasury, which oversees the Customs Service, said the Reagan Administration concluded that if the U.S. were to by domestic industries, special efforts would have to be made

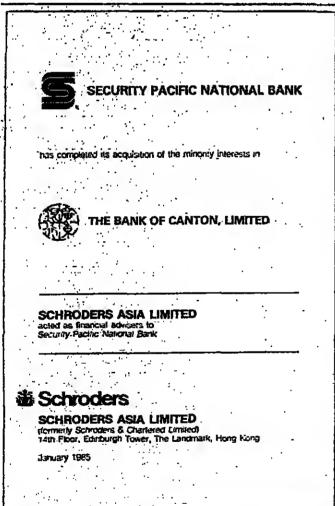
Bids called for Thai plant BY BOONSONG KTHANA IN BANGKOK

THAILAND'S National Petro-chemical Corporation has invited stream part of Thailand's \$830m intercational companies to submit prequalification hids preparatory to participation in the

planned petrochemical complex will use indigenous natural gas fractions produced by the state-run Petroleum Authority of tender for construction of its Thailand's gas separation plant in as feedstock for the annual prothe East coast province of duction of 315,000 tons of Rayong, Boonsong K'thang reethylene and 105,000 tons of ports from Bangkok.

World Economic Indicators

INDUSTRIAL PRODUCTION (1975 = 100)		% change
Nov. 84 Oct. 24 Sept. 84 U.S.* 165.0 164.3 165.0 Japan† 120.8 120.2 117.1 U.K.† 162.3 101.5 100.0	Nov. '83 155.3 109.5 162.3	previous year +4.2 +10,3
Sept. 34 Aug. 34 July 34 W. Germany 1162 118.3 118.9 Italy 126.5 126.1 119.7 Netherlands 116.7 117.4 113.5 * 1967 = 100,	Sept. '83 115.8 118.0 109.3	+0.4 +7.2 +6.8





McDonnell committed to making **MD-87**.

By Michael Donne, Aerospace Correspondent

McDONNELL DOUGLAS, the U.S. airliner manufacturer, has now formally committed Itself to the manufacture of the new 109-130-seat version of the MD-80 series of twin-engined short-to-medium range airliners, the MD-87.

The decision was The decision was fore-shadowed just hefore Chriat-mas, when two European air-lines, Finnair (8) and Austrian (4), together placed firm orders for 12 of the new aircraft, with deliveries due in late 1987, at a cost of ahout \$240m (£208m). Mr Jim Worsham, president of the Dougles Aircraft Comof the Douglas Aircraft Com-pany division of McDonnell Douglas, said that airlines world-wide had expressed interest in the MD-87, and more orders were expected in the next few months.

Competing with the MD-83

are the British Aerospace 146 four-engined regional jet airliner, the new Fokker F-100 twin-engined jet airliner, and the Boelng 737 twin-engined

jet.
They are all battling for a market expected to amount to more than 1,000 aircraft in the 100-130 seat category by the end of this century, worth some \$15bn to \$20bn (£13bn to £17bn).

• Cathay Pacific has converted an option on a aecond Boeing 747-300 extended upper-deck Jumbo jet into a firm order, and has taken an option on a third such aircraft. Its first 747-300 is due for delivery in June, and the second in March, 1986. The third, if converted to a firm contract, will be delivered in March, 1987. The aircraft are worth about \$100m each.

Alitalia has ordered six of the new Franco-Italian (Aerospatiale-Aeritalia) ATR-42 50seat turbo-prop airliners, with an option on four more, for

use by a new airline to be formed by merging Aermediterranea with ATI to create a domestic Italian operator. First deliveries are due in 1986. The price of the deal has not been disclosed.

Alcatel gains ground in U.S. market

Alcatel Thomson, the French telecommunications grouping formed out of merged CIT Alcatel and Thomson interests, has gained further ground in the U.S. market by clinching a digital switching order with of the leading U.S. telecom munications companies. David

Marsh reports from Paris. UTS, ranked as the leading U.S. group in its field outside the Paris Bell companies, will huy Alcatel's modified E.10 public exchange, the E.10-5 system, for installation in its Midwest group at Glasco, Kansas this year.

Alcatel, which bas suffered a generally disappointing year on export markets after its failure

to be considered for public switching orders in the UK. is making a big effort to market its systems in the U.S. to profit from American telecommunications. tions deregulation.
Thomson S.A.'s subsidiary

Thomson Grand Public has aigned a contract to supply 230,000 colour television sets to China this year. SHIPPING REPORT

Further proof of operators in trouble

By Andrew Fisher, Shipping Correspondent

FOR the world shipping com-munity, 1985 began in the same overcast mood in which 1984

overcast mood in which 1984
left off-depressed by further
evidence of companies in
trouble and with freight rates
atill weak.
Completing a trio of major
operators in difficulties, Gazocean of France disclosed that
it bad asked four owners to
retrospectively cancel costly
charters and instead take sbareholdings in the cas shipping conholdings in the gas shipping con

Recent weeks have seen the failure of both Sweden's Saleninvest, in the refrigerated cargo sector, and Irisb Shipping in the hulk carrier area.

With increasing over-tonnag-ing in container ships as major orders are delivered and ambi-

tious round-the-world plans get under way, this sector too looks due for upsets.

All in all, said London ship-hroker Denholm Coates, it was "a pretty murky start to 1985." Dry cargo rates from the U.S. lo Japan and South Africa dipped and there was no uplift from further Russian and Chinese grain ship chartering. This year could, however, be

less fraught than 1984, which ended with most rates no bigher than a year ago and an over supply in tankers of 18 per cent and hulk carriers of 3 per cent. The surplus was down on 1983. And, if world economies show more growth and dollar interest rates fall further, 1955 may still prove, if not a golden year for shipping, at any rate a slightly less calastrophic ooc than 1984," said Eggar Forrester.

Christian Tyler and Nancy Dunne look at prospects for Foreign Sales Corporations

U.S. export tax law 'conforms with Gatt'

export subsidy, new U.S. legislation has brought Americao export tax law into claimed conformity with the General Agreement on Tariffa and Trade (Gatt).

ane law, which came into Zealand and parts of the Middle effect last week, seeks to replace the controversial Discs with new bodies called Karsim Saland bodies called Foreign Sales Corporations (FSCs). The crucial difference is that, whereas Discs are paper entities inside the U.S., the FSCs must be real companies operating offshore. Up to 8,000 of these new bodies may be created in the coming months as U.S. ex-porters seek to qualify for the new tax allowances on their overseas sales revenue.

TWELVE YEARS after Canada FSCs can be set up in U.S. and the EEC complained that territories like the Virgin American Domestic Inlerna- Islands, American Samoa, Guam tional Sales Corporations or the Northern Marianas, but (Discs) were an illegal form of not in Puerto Rico. They may also find homes in 23 counties identified by the Treasury Departmenl; the favoured EEC focations seem to be the Netherlands, Belgium and Ireland, but also eligible are Australia, New

> are prominent by their absence from the approved list because they either cannot or will not pass on to the U.S. Internal Revenue Service enough information about companies registered within their borders.

Americans, but officials in London say Parliament would have to legislate to provide any more information than that already available under the hilateral double taxation agree-

Nor is Britain particularly keen to play host to FSCs. According to officials they would add little or nothing to the British economy. Furthermore, Brilain is still questioning whether FSCs conform to the spirit or indeed the letter of the Gatt rules. If the EEC decided to return

to the attack, Britain would probably support that. How-ever, it seems unlikely that the tered within their borders.

Traditional financial secrecy may be sufficient explanation of Switzerland's exclusion. As for the UK, negotiations are still going on, according to the

authority as regulator of the world trading systems! Under the new U.S. law Discs are not abolished but exporters who continue to use them will have to pay a yearly interest charge on deferred taxes accumulating from the beginning of this month.

The real tax advantages will,

however, go to the new off-shore bodies. If an FSC buys from independent suppliers in its role as trade mlddleman, 32 per cent of its income will be execupt from U.S. corporation tax. If it is supplied by a "related entity" then 16 per cent of the income from the export deal would be tax

The legislation also lays down how FSCs are to be constituted and the minimum amount of work they must do to qualify

The U.S. Revenue will not allow credit for foreign taxes located within a jurisdiction which imposes little or no income taxes is said to be a practical necessity. U.S. tax authorities are also requiring FSCs to mainlain specific business records in both domestic and overseas offices, and they are forebidden to have more than 25 share holders or to issue preferred stock.

FSCs give exporters slightly more than did Discs. Treasury officials estimate that in fiscal 1984, Discs brought in a revenue loss of \$1.1bn (£95m). FSCs would have cost \$1.3bn more.

The IRS has given exporters three months to sign up for FSC benefits, so it will not be until April thal estimates will be available of business participation in the new scheme.

on fertiliser production

BY RICHARD JOHNS

KUWAIT is expected to form a joint venture with China for the large-scale manufacture of ammonia fertiliser using gaa from an off-shore field in the South China Sea under an agreement signed last week in Peking.

Mr Rong Yiren, head of the China International Trust and Investment Corporation, and Sheikh Ali Khalifa al Sahah, Kawaiti Minister of Finance and Oil, decided on the formation of sections development. tion of a joint development company, according to the New China News Agency.

No details were released but the main priority is understood to be fertiliser production based on the massive gas field being developed by Chinese National Offshore Oil Corporation and Atlantic Ricbfield in a license area where Santa Fé, a wholly hased on Hainan Island

owned aubaidlary of the Kuwait THE Chinese Government is stood that production targets Petroleum Corporation, has a

minority 30 per cent Interest.
Sheikh Ali Khalifa was accompanied on his visit to China hy a senior executive of Sanda Fé whose C. F. Braun chemical engineering division in the forefront of fertiliser manufacturing technology. It is believed that as many as six believed that as many as six plants with an optimum capacity of 1,500 tonnes of ammonia a day is envisaged

They would require nearly 300m cubic feet per day of gas compared with the likely output from a single platform estimated earlier this year by Arco of 500m cfpd.

Chinese officials indicated then that they were thinking of utilising the gas for large petrochemical projects to he

Kuwait, China set for pact Chinese show interest in **Land Rover venture**

BY LISA WOOD

investigating the possibility of are currently aome 20,000 Jeeps setting up a joint production a year for the Chinese market. plant with Land Rover, part of BL, the motor vehicles company.

Land Rover said yesterday details of its vehicles producthat the Chinese had made It clear that they regarded its models as the leading 4-wheeldrive vehicles in the world.

Last year the company played a algnificant part in British motor manufacturers' demonstrations to the Chinese whose potential market for vehicles such as Land Rovers is huge. of Land Rover's

One of Land Rover's major international competitors, American Motors, has already set up a joint veoture in China. The venture, called Beljing Jeeps, started manufacturing Jeeps about a year ago, based on a 1950s design. It is under-

Land Rover sald that while tion, no detailed talks had been held on production targets or the size of investment. Neither had it been discussed whether a plant would assemble kits or manufacture Land Rovers, Land Rover, which improved

its sales performance in 1984 and introduced a new model. the One Ten, has 20-odd plants around the world, primarily in Africa. The domestically manufactured content varies from plant to plant. Some 70 per cent of UK production—about 40,000 vebicles a year—is exported. The company also sees strong potential for direct ex-ports of vehicles to China,

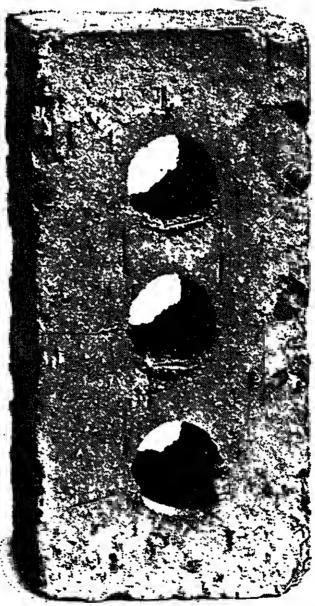
Pactel to help update Yunnan 'phone system

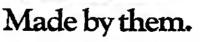
PACIFIC TELESIS International has won a contract to assist the Chincse province of Yunnan update its telephone system, Louise Keyhoe reports from San Francisco. This is Pactel's first overseas contract since the Californian telephone company was given court approval lo move into the international market place last

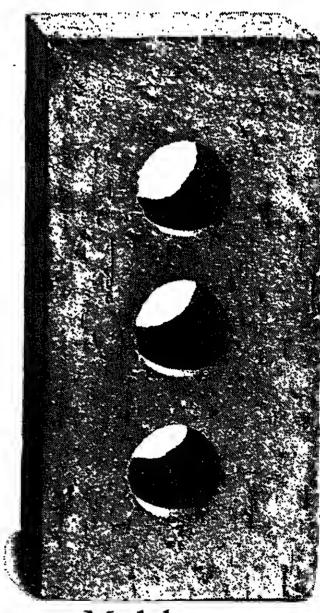
Pactel did not disclose the value of the contract, but a spokesman and the company toped that it would lead to the sale of a substantial quantity of telephone equipment.

The province's telephone system is antiquated and in-adequale. According to Pactel, the Chinese want to double its size and convert it to a modero digital system.

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GAS IS WONDERFUEL

BY A. H. HERMANN, LEGAL CORRESPONDENT

IT WOULD be much too pretentious even to attempt a survey of the European legal developments in the past year. I will only try to point to certain areas of change.

One of these is that the fascination exercised by Community law no UK business lawyers waned with greater familiarity and with the realisation that there is a great need for "harmonisation" beyond the scope of the EEC: for example, of the extraterritoriality contradic-tions between Europe and the U.S. and, no a less dramatic level, between the German and the English approach to certain commercial and

Within the EEC law area itself one could note a pronounced shift of attention from competition matters to trade issues appearing in various forms according to the kind ol protection against imports or subsidy for exports.

The basis for a greater litigiousness in the anti-dumping field was provided towards the end of 1983 by the European Court's judgment in Case 191/82 establishing that industrial enterprises have a right to demand the Commission's protection against dumping and can turn to the European Court for belp if the ion refuses to act.

Soon afterwards, in February 1984, the Court strengthened the Commission's hand, making it clear that it could proceed with its countervailing duties without a re-examination of the case when the offending foreign company withdrew

In contrast with the rather rigid stance adopted in competition mat-ters, the European Court adopted a flexible approach to trade issues. Thus, in the Campus/Oil case, it conceded to Ireland that essential national industries may be helped by assuring them a privileged high-

In the Mabanaft case concerning import duty on coal, it conceded to Germany that there are exceptions to the rule that the European Coal and Steel Community is a cus-

Unfortunately, the Court did not show a sufficient grasp of international business to follow Madame Simone Rozes's Opinion in the Asturienne Mines case that it is sometimes necessary to grant special discounts for the opening of a new

ing decisions on pricing regulations, and some more cases are pending. Of greatest topical interest in view of the Department of Health and Social Security project of limiting medicines which can be prescribed no the UK National Health Service is the Duphar decision where the court said that this could be done only if no discrimination of produc ing countries was involved, and if there was adequate possibility for revising the list with advancing

The court also approved the Belgian price control of medicines in Case 301/82. The two Leclerc cases, one concerning retail price maintenance of books and the other Freoch regulation of petrol prices are still pending but close to a decision. The Opinions of the Advocates General concerned favoured the approval of Retail Price Maintenance on books but branded the price regulation of petrol as a discriminatory measure likely to restrict French imports of petrol from other EEC

The Competition Department of the EEC Commission continued to suffer from its initial mistake of using smallmesh nets and casting them too widely. They caught more fish than they could haul out, and instead of letting go they tried var-ious remedies, all equally doomed to failure. The "letting go" could be achieved by rebabilitation of the provisional validity of notified agreements repudiated at the Commission's prompting by the court in

The Commission is now trying to deal with the thousands of notified and potentially invalid agreements by issuing "comfort letters" saying that no immediate action was intended. Optimistic managements may welcome such a piece of paper from Brussels as a pledge of eternal peace but their legal advisers should feel very uncomfortable in view of the court's clear declaration that such letters have no legal ef-

The Commission made considerable progress on the other way which it hoped would lead it out of the quagmire: it obtained from the council approval for block exemption regulations concerning patent licensing and exclusive dealing

To obtain the member states' agreement it had to yield to criti-

repeatedly voiced in this column. remove the fundamental objection that such exemptions are unnecessary because most of the agree ments concerned should not be considered anticompetitive anyhow.

Why is it a greater restriction of competition if the owner of a patent monopoly transfers it to someone else? And why is it more anticompetitive to appoint a sole dealer than to take over a local distributor or establish a local subsidiary? But even if the Commission is somehow unable to follow the U.S. Supreme Court in its view that distribution agreements are not a matter of ide ology but of market analysis - and that some may indeed be pro-competitive - one must be grateful that its officials are now sufficiently mellowed to try to meet at least the detailed criticism of their projects. The house they are building will still have a structural fault, but its plumbing will be at least improved.

In the field of competition enforcement, the Commission must be congratulated at having brought to an end, by an agreed compromise, its challenge to IBM. Its lawyers have now learned that they operate in a world of politics, but apply this newly acquired knowledge sometimes with expess

Such was the case of the Commission's Intermills decision which approved Belgian state aid for a qualitative upgrading of paper mills by means of grants and loans, but condemned the same when done by neans of equity participation by

The decision, a result of a political deal, was full of contradictions and assertions unsupported by evidence. The court threw it out It would be ridiculous that the great apparatus could not produce anything better for its political masters if it was not rather sad that the decision reflected a disdain of market analysis and a willingness of the political masters to sign anything submitted to them by the staff and agreed by the kabbalah of their chief of cabinets.

The weakness of political lead and control became also evident from the Court of Auditors' criticism of the Commission's transfer of its responsibilities for distribu-tion of foreign aid to the European

Compared with issues resulting such disputes.

There were a number of interest- cism which over the years has been from trade wars or which may lead to a substantial reduction in the price of motor cars - endeavoured by the Commission by its Ford decision and recent regulatory at-tempts - bills of lading, bills of exchange, cheques and commodity op-

tions usually attract only the atten-

tion of experts.

However, a number of German, Italian and European Court decisions indicate that there may be a more urgent ored for harmonisation of laws in this field than in many to which the European Commission gives high priority, while English courts adhere fairly strictly to the principle that hills, cheques credit are abstract documents of ti

German courts attach greater weight to the principle of good faith and allow it to override the abstract nature of the document. There is an even greater difference in the treatment of commodity optious and other differential deals, which in Germany are put in the same category as gamhling, so that the resulting dehts are enforceable only excep-tionally under conditions laid down in the statute.

As the case of Rayner v Bank für Gemeinwirtschaft, now pending in the High Court, shows, even very experienced London com modity dealers can get trapped when applying notions of English law to deals made with or for Ger-

In contrast with these rather technical problems of business law, the transatiantic conflict over the responsibility for the demise of Laker Airways was and remains very much in the public eye. While the House of Lords bas shown great reticence, the U.S. courts are becoming more and more extravagant in their application of U.S. antitrust laws to events taking place

rial application of national laws to international business is clearly getting more intense and more threatening to friendly trade relations the longer it lasts, and it is no consolation to say I told you so? Perhaps the bitterness of the conflict and its evident damage to trade will persuade the governments of the need to take these matters out of the reach of courts and to provide for new means for settlement of

The conflict over the extraterrito-

UK NEWS

in final phase of inquiry

ing the ficture and organisation of number of important issues have the UK nuclear industry could be been identified during the inquiry answered during the final phase of by Sir Frank, the first of which took the Sizemell B power station inqui- the CEGB by surprise. ry which starts tomorrow. The The inspector set out to discover plans in build a pressurised water • If the British-designed advanced reactor (PWR) on the east coast of gas-cooled reactor (AGR) would be England have produced Britain's safer and more economic than the

longest public inquiry. The next two months of closing • If the CEGB's project managesubmissions will be the last chance ment structure is sound. tor, after two years of detailed evi- of obtaining safety clearance for dence. Sir Frank will then be left to reactors needs improvement.

or not he believes the first PWC power station will be a sound inrestment and acceptably safe.

would be Sir Frank's satisfaction dence. that the Central Electricity Generating Board (CEGB) has the abili- proven British expertise in AGR

cycle, however, his report will cover would "kill off" the AGR. a series of important issues and will help to shape Britain's nuclear pow-move to reassure its Scottisb equiver policy into the 21st century.

ion which threatened their relation-

IMPORTANT OUTSTIONS affect- tionships with safety watchdogs. A experts. The Scottish board later in-

for inquiry participants to confirm 6 If present "safe" radiation dose or alter the conclusions reached by limits should be reduced.

Sir Frank Laufield QC, the inspec

If the present lengthy methods

consider his recommendations to If the CEGB's proposals to minithe Secretary of State for Energy.

His main task is to say whether

Sizewell B go far enough. Sir Frank decided that the CEGB

had not paid enough attention to restment and acceptably safe.

Implicit in a recommendation that consent should be granted land Electricity Board to give evi-Mr Donald Miller claimed that

ty to build Sizewell B within 712 construction would enable future years and within the £1.2bn tudget. reactors of this type to be built

After n wide-ranging inquiry tak- quickly and no budget. He said he ing in all aspects of the nuclear fuel was alraid opting for the PWR

alent, announced at the inquiry that It will also influence important it would finance a new study aimed decisions affecting the organisation at improving the AGR design and of the nuclear industry and its relative maintenance of n team of AGR

British Lada contract agreed

BY KENNETH GOODING, MOTOR INDUSTRY CORRESPONDENT

SATRA CORPORATION, an group. There have been suggestions

importer of Russian-built Lada cars that Avtoexport would either

to Britain, and Avtoexport, the So- acquire the British operations or

viet trading organisation, bave re- that they would be moved to en-

ship and have signed another long- vice-president of Satra and manag-

The news will be given formally UK bolding company which owns

solved serious differences of opin- other independent organisation.

formed the hearing that it did not

The CEGB has argued that although the economics of the two reactors are similar, it makes good sense to establish the PWR as n further option for the future. With the help of Mr Henry Brooke QC, coun-sel to the inquiry, Sir Frank has subjected the CEGB's project management proposals to close scru-

He invited Sir Alistair Frame, vice-chairman and managing direc-tor of Rio Tinto-Zinc, to give an in-dependent opinion of the board's plans. Sir Alistair made wide-ranging criticisms, some of which were met by the CEGB

The main area in which the hoard declines to budge is Sir Alistair's recommended recruitment from overseas of a project overlord experienced in PWR construction.

Public concern over a possible link between low levels of radiation and the onset of disease led to the inquiry examining the subject in great depth. Sir Frank, however, was told by Sir Edward Pochin, consultant to the National Radiological Protection Board, that he considered present international limits

Sir Frank is expected to take at least six months in drawing up his report, and a government decision is unlikely before early 1986.

Soviet troops moved to support the

regime in Afghanistan in December

Since then the dealer network

and sales have been systematically

rebuilt, but 1984 was a poor year fo

Call for additional North Sea tax relief

By lan Hargranes

THE GOVERNMENT should grant additional tax relief to North Sea of producers to encourage them to ex-tract additional oil from existing fields, according to a study pub

lished today.

Professor Alexander Kemp and Mr David Rose of Aberdsen University, two of the leading British experts in UK oil taxation, argue that although the subject is complex, ways can be found of devising schemes which will not be too cost-ly to government and which will provide enough incentive to oil producers to invest in enhanced oil re-

covery projects.
In his last budget, Mr Nigel Lawson Chancellor of the Exchequer, said he would consider tax incentives for enhanced oil recovery schemes. He is expected to disclose his conclusions in the next budget. Indications are that the Treasury might permit an additional capital allowance against petroleum reve-nue tax, although n number of other

options exist. The Aberdeen study considers a wide range of possible tax incen-tives and tests them against the economics of a variety of enhanced oil recovery methods. They include drilling satellite wells, flooding oil reservoirs with chemicals to make thick oil flow more easily and increasing pressure in oil reservoirs by flooding them with water.

The Aberdeen simulations show that the effect of any type of fiscal relief is highly complex because of the variability in field types and the existing complex tax system. Wide-ly varying tax levels and types are levied from different fields. year, bowever, as n quarter of the dealers deserted the franchise after

The report, however, identifies two types of tax incentive which, it argues, would not be so generous as to risk encouraging companies to "gold plate" their engineering or so ungenerous as to be ineffective in stimulating investment. These are: Abolition of oil royalties on the oil produced by enhanced oil recovery investments.

 Extra expenditure allowances for enhanced oil recovery projects. The disadvantage of this method is that it will stimulate only the more capital-intensive types of scheme,

Fiscal aspects of incremental invest-ments in the UK Continental Shelf, De-partment of Political Economy, Universi-ty of Aberdeen, Edward Wright Building, Dunbar Street, Aberdeen ABS 2TX; Cl.

Lada, Mr David Hunt, managing di-rector of Satra Motors, the UK opto the 185 Lada dealers in Britain at the right to import all Soviet cars to a meeting on Wednesday. It will Britain, revealed at the weekend, end months of speculation about however, that his company had erating company, said that registrations in 1984 were about 15,000 compared with a target of 19,000. who would take over the Lada im- signed another long-term contract port franchise which has regularly late last year. He blamed the miners' strike and accounted for about 1 per cent of The UK is the second most imporits impact no the economies of total new car sales in the UK. those areas in which Lada usually tant market after France in West-Avtoexport controls the Lada im- ern Europe for Soviet car sales. achieves most sales port businesses in Belgium, Nor- Registrations in Britain reached a This suggests that Satra Motors way and Sweden and in October peak of 22,270 in 1979 which gave 1982 took over the import company Lada a market share of 1.3 per cent. will suffer further losses for 1984. In 1983 it declared a net loss of in West Germany from Satra, a U.S. Sales plummeted the following

Mr Agop Chalekian, an executive

ing director of Lada Cars GB, the

£72,349 on sales of £9,26m

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sure you've got a choice of menus, and that the food is

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and champagne from Moet and Chandon. (Don't forget the cheese board and fruit basket.)

Make sure you've got a comprehensive selection of business reading material.

Make sure you've got an electronic headset and a pair of comfort socks. Make sure you've got

someone to fuss over you. (Only an airline with one cabin attendant for

every ten passengers can make you've got that.)

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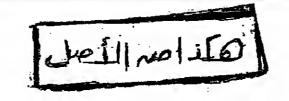
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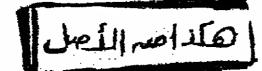
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UK NEWS

North in numbers ending strike

BY PHILIP BASSETT, LABOUR CORRESPONDENT

in the number of miners returning to work to begin today. The NCB — the NCB said it had been inundatively that more than half of Brited and with telephone calls from miners are likely to be work—indicating they intend to return this

work later in the week and for the groups to try to avoid any intimida-rest of the month.

mr Ian MacGregor, NCB chair—Since the strikes have been at man, broke his long public silence, their most solid in South Wales, over the coal dispute yesterday by NCB officials feel that only when forecasting that the return to work groups are organised will the drift from today would be "something back increase there. The letters emphasise that no approach will be wanter and early last month, when made to individual miners until the made to individual miners until the made to individual miners at the port.

work. each pit to form such groups.

Speaking on TV-am, he main Officials of the National Working tained that the hundreds returning a each day marked a "very important the weekend, agreed that the outstep" and said that these numbers coming back were "quite satisfacto-to the future of the dispute.

The period from today would

miners are back at work, and Mr and Yorkshire. Scotland and Wales MacGregor said that after taking were more unknown quantities, info account the normal amount of though the committee saw as significant to the same than the same transfer of the same natural wastage over a period the ficant the planned visit of Mr Ar-length of the present 10-month-old thur Scargill, the NUM president, to strikes, a figure of about 85,000 rep. South Wales today resented about half the number of

both by Mr MacGregor and Mr Mi-chael Eaton, the NCB's official spokesman, on the same pro-gramme, would mean more than negotiate. half the miners back working in a While he would have liked to

that happened, the National Union Mrs Thatcher did not understand of Mineworkers would have to rec- the solidarity of the miners and ognise that the majority of its mem- their determination to defend their bers were back and they should pits and their jobs. then return to normal working. The costs of the miners' strikes

the NCB were echoing Mr MacGre-gor's points. In Scotland, the NCB The report says that the we gor's points. In Scotland, the NCB The report says that the weekly expects a substantial number to re-

SENIOR OFFICIALS of the Nation- In the barometer coalfield of al Coal Board (NCB) and leading North Derbyshire - where Mr Ken working miners expect a new surge Moses, NCB area director, said just

Both the NCB and the working In Wales, the area's 19,600 miners miners expect heavy picketing to will today receive letters from the day, however, as striking miners coal board containing a pre-paid re-try to discourage a return. They feel turn form and detailed information this might spread the return to on how they can return to work in

rest of the month.

Mr Ian MacGregor, NCB chair—Since the strikes have been at each pit to form such groups.

see "a continuation of that gradual indicating a strong likelihood of a The NCB claims that about 70,000 much greater return to work in North Derbyshire, the North-East

Speaking on television, Mr Scar-Reaching the targets predicted warning that there was "no pros gill seemed confident yesterday, pect of a negotiated settlement" if, he claimed, the Prime Minister con-tinued to refuse to allow the NCB to

ew weeks time.

have seen greater support for the
Mr MacGregor said that when miners from other workers, he said

conditions. I'm sure that will hap have risen sharply in the last conen in due course." ple of weeks as a result of winter In the coalfields, area officials of power demands, according to a re-

turn today as the priscopen for the about 050m to between 050m and first time after Christmas. 655m.

addition Surge expected Working miners may force union to hold elections

BY PHILIP BASSET, LABOUR CORRESPONDENT

considering taking legal action if complexion of the executive.

necessary to ensure that elections are held for members of the National Union of Mineworkers' (NUM) of the NUM, the area council, saw national executive committee.

to be called for next month, and strikes. centre and right-wingers in the

Control of the NUM executive the strikes

WORKING MINERS' leaders are the elections in altering the political these elections are held, if there are

pro-strike left-wingers all but com-Nominations for elections to 24 pletely replaced by centre and seats on the NUM executive are due right-wingers opposed to the

> Nottinghamshire, however, is so been suspended for the duration of election

signs of moves to prevent them.

Any elections for posts on the NUM's national executive would probably be conducted by postal ballot. The working miners might apply for this under provisions of the Government's 1984 Trade Union Act which gives power to the courts to order a postal ballot if strict crite union – including many connected with the organised working miners' such elections, for in many areas groups – plan to challenge for the elections and branch meetings have moves might be made to disrupt the moves might be made to disrupt the moves might be made to disrupt the

could be a crucial factor in the out-come of the strikes. At present led by the left, with the right in disorga-in train to defer the national elec-tions due to be concluded by early nised retreat, the executive could tions. Proposals will be put this summer include Mr Sid Vincent become the formal focus for e revolt week to lawyers who have been act against the leadership of Mr Arthur ing for the National Working Min-Scargill, NUM president, if moder-ers' Committee that court orders Nottinghamshire and Mr Gordon ate miners are successful during should be sought to ensure that

Both sides 'in state of victory'

BY OUR LABOUR CORRESPONDENT

are in a "state of victory" which backing their leaders. neither wishes to end, although

not giving way on its policy and eco- ister for work by post or telephone,

At the same time, Mr Arthur

BOTH SIDES in the coal dispute stantial number of miners were turn. On return, they would then re-In line with his own tendency to describes this as a "sort of implicit

neither wishes to end, although both may wish that the dispute was over, according to Dr Edward de Bono, an academic and leading thinker.

In an unusual analysis of the coal dispute, Dr de Bono, lecturer in medicine at Cambridge University and author of the philosophical work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work in the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work in the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work in the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work "Lateral Thinking," suggests that the face of often violent opposed work in the face of often violent opposed work "Lateral Thinking," suggests position from striking miners, Dr be shut down, but not communitate the Government is winning by de Bono suggests that miners regions."

but stay at home.

Similarly, the NUM could have
Then, when more than 50 per the right to keep any pit open - probut stay at home. Scargill, NUM president, and the cent of the miners at any one pit vided that it met its conditions, NUM were winning because the had registered for work, miners such as providing say 25 per cent of

ceive their back wages. Dr de Bono

Benn rules out challenge to Kinnock

BY JOHN HUNT

MR TONY BENN, the left-wing MP for Chesterfield, yesterday crushed suggestions that he will be challenging Mr Neil Kinnock for the leadership of the Labour Party in the automn.

He gave a blunt "no" without elaboration when the question was put to him in a BBC televi-

ed to mount a challenge to Mr Kinnock to show their dissatis-

on the miners' strike. They be-lieve that he has been hedging his bets and has not been strong enough in support of Mr Arthur

Mr Benn would have been their favourite candidate, but he

is known to have been reluctant to accept the role. A more likely possibility is that the hard left will put up a candidate against Mr Roy Hattersley, the deputy leader, who is under constant criticism from the left for his

Before leaving for a visit to Nicaragua yesterday, Mr Kinnock made it clear that a period of si-lence from the hard left factions within the party would be welcome during the coming year. He feels that constant carping against leading figures in the Shadow Cabinet will cause further damage to Labour's elector-

Mr Kinnock said 1985 would be a crucial year for Labour, but he rejected suggestions that it would be a disastrous one.

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This announcement appears as a matter of record only.

Unions risk TUC suspension over ballots

BY OUR LABOUR STAFF

SENIOR Trades Union Congress (TUC) leaders are forecasting that the electricians union EETPU, and possibly the AUEW (engineering workers) are likely to be suspended from TUC membership in a few weeks time for taking Government money to fund internal union postal

Leaders of the Electrical, Electronic. Telecommunication and Plumbing Union (EETPU) will to-morrow meet Mr Norman Willis, TUC general secretary, over the. union's decision to apply for Gov-ernment money, contrary to TUC

policy.

A similar meeting with leaders of the Amalgamated Union of Engineering Workers will also take place this week, though the date has not yet been fully finalised.

Although many union leaders felt-that the TUC - to some extent already starting to rethink its blanket opposition to the Government's labour laws - might try to circumvent

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TUC figures were warning yesterday that suspension from member-

ship was now likely.

One senior figure said: There is no doubt in my mind that if the EETPU decide to take the money, then the general council will suspend them." Expulsion of the two unions would create the biggest division in the TUC since the deep splits over registration under the Conservatives' ill-fated 1971 Industrial Relations Act.

The two unions, which together comprise about 13 per cent of the TUC's total affiliated membership, and contribute proportionately to its income, form the largest right-wing grouping on the TUC, and their expulsion would markedly shift the TUC's political complexion

to the left.

controversy over the EETPU's decision, and the AUEW's move to ballot its members on the issue, senior code whether to re-admit the union, to review labour law policy would or expel it fully.

Industrially, expulsion could remove the unions from the protection of the TUC's Bridlington princiand general purposes committee, try to peach the membership of only by the full TUC congress

tion dispute in 1980, that lifting of the TUC's inter-union rules would for members previously protected possibly see any way we will by Bridlington. Nevertheless, senior TUC figures

ples, which govern inter-union relations. This could prompt a series of full TUC general council two days inter-union disputes if other unions later. Its decision can be overturned TUC officials are adept, though,

Leaders of the EETPU in particu- at finding scope for compromise, lar bave always warned in previous even on such sensitive issues, and controversies with the TUC, such as they are likely to try to find ways of the bitter Isle of Grain power sta-tion dispute in 1980, that lifting of Compromise by the unions thembe likely to result in the EETPU ag- Mr Eric Hammond, EETPU general gressively challenging other unions secretary, said yesterday: "I can't

change our position are warning that unless there is tomorrow to Mr Willis and Mr Bill some change of heart by the two Keys, chairman of the employment the left. unions, suspension seems inevi-unions, suspension seems inevi-unions, suspension seems inevi-table. They were forecasting yester-the meeting, but he saw no prospect

pended by the annual TUC Con- day that the TUC's key employment of the EETPU changing its mind.

Spending demands rejected BY OUR PARLIAMENTARY STAFF

MR LEON BRITTAN, the Home Secretary, yesterday firmly rejected the demands which have been voiced by many Tory MPs for a package of capital spending on pub-lic works and regional intrastructure in order to reduce unemploy-

Mr Brittan indicated that in the March budget the Government was determined to use any available money to increase income tax thresholds and thus help the lower

I unhesitatingly say that the tax route is the better one," he said in an interview on independent televi-

He said that, although a boost in capital spending might look physical and immediate, it was really "shortsightedness of the first or-

It would merely give a short-term boost to employment that would be before the House of Commons to dissipated in the second and third curtail local authority capital year with interest rates going up spending, and many Tory backand inflation rising.

rising tax thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly. It would give the aminal and the first thresholds was to increase incentives greatly and the first thresholds with the first thresholds were thresholds and the first thresholds was to increase incentives greatly and the first thresholds were thresholds and the first thresholds are thresholds and thresholds are thresholds and thresholds are thresholds are thresholds and thresholds are thresholds and thresholds are thresholds and thresholds are thresholds are thresholds are thresholds are thresholds and thresholds are thresholds give the equivalent of a pay in-crease at the lower end of the income range without actually put-ting up pay. This would be most beneficial for bringing jobs back, be

the Government was sticking to its ade.

bench MPs remain bitterly opposed

sented to senior Government ministers, business and union leaders on hard to find solid grounds for exaid.

Mr Brittan also made clear that

ment rate before the end of the dec-

proposal, announced by Mr Patrick
Jenkin, Environment Secretary, of limiting the amount which local anthorities and use for the color of the color o thorities could use from their hous- big review next month by the De-

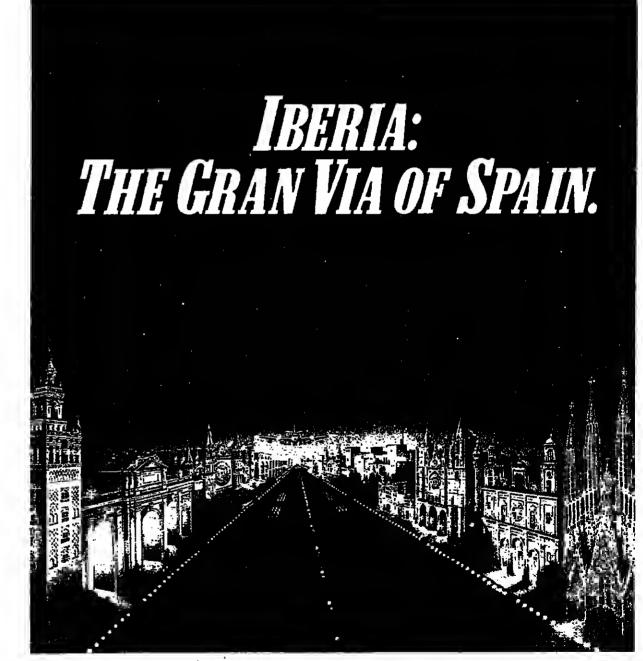
Energy switch to coal

BY MAURICE SAMUELSON

The conversion is being made be- coal strike. cause of the rising losses of the Northern Ireland Electricity Service (NIES), which in 1985-86 could remay be made this week before the quire subsidies of £95m.

fast, is to be converted from oil to ters have now accepted the economsolid fuel, at a cost of about £70m, ic case for doing so, but they are despite the continuation of the coal anxious that the announcement be

formal announcement by Mr Doug-The NIES, strongly supported by las Hurd, the Northern Ireland Section 1 (NCR) has retern



Worldwide, Iberia flies to 21 European, 27 North & South American, and 15 African & Middle Eastern

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Deutsche Bank Aktiengesellschaft

ing accounts for capital expendi- partment of Employment of pay

NORTHERN IRELAND'S largest been pressing for Kilroot's conver-power station at Kilroot, near Belsion for some time. Cabinet minis-

carefully phrased because of the

MANAGEMENT

AROUND THE end of January, if there are no last minute hitches, Formica Corporation becomes an independent company. The management of one of the world's leading manufacturers of plastic surfaces familiar on kitchen countartops will lead a buy-out from Formica's present parent, American Cyanamid, the pharmaceuticals and chemicals group. Tha prire is \$200m (£168m). Exactly how much equity the management will own has yet to be revealed. pany. The management of one has yet to be revealed.

The move is something of a gamble. Onre pre-eminent in its field Formica has lost ground to aggressive compentors in recent years and the big question must be whether it can survive and prosper as an independent company in increasingly tough market conditions.

American Cyanamid announced in October that it Cyanamid had agreed to sell its Formica subsidiary, which, until 1977, it had jointly owned with De La Rne, the UK banknote and security printing group. Speci-fic details have not been revealed, but it is understood that borrowings against Formica's \$210m (£176m) of assets and is backed by Shearson Lehman/ American Express, the U.S.

banking group. Heading the company will be Gordon Sterling, a 49-year-old American who is currently president of the Formica division and has been with American Cyanamid for 21 years. He predicts that Formica will "operate in much the same way," as before, but stresses that it will be more aggressive in marketing new products and will expand into new markets

Some Wall Street analysts feel that the move may provide a needed shot in the arm for Formica, which is based in New Jersey just down the road from American Cyanamid and which has a worldwide spread with 12 plants in 11 countries. While It still holds around a third of the \$1.5bn (£1.25bn) worldwide market for decorative saminate materials, Formica faces tough competition in the U.S., and in Europe. In the U.S., which in 1984

accounted for nearly 60 per cent of Formica's \$370m (£311m) turnover, it has heen out-stripped: Wilson Art, a subsi-diary of Dart and Kraft, the food and consumer products group, has more than doubled its market share in the last ten years. Now holding around 35 per cent of the market, it has left Formica with just under a

The two companies compete

Formica buy-out

Tough times ahead as an independent

Andrew Arends on the outlook for the plastic laminates group as it is about to brea kaway from its parent company



manager of Wilson Art, "We provide a faster and better serindependent vice to the customer." In Europe, including the UK, companies like Perstorp, the Swedish specialty chemicals group, have eroded its market share. Perstorp's success has been based on its development of higher value-added laminate products, such as specialised flooring panels, and a wide Shearson claims that the new

ariety of marine products. Unlike Formica, which has traditionally sold sheets of the raw plastic surface to fahricators to turn into kitchen countertops, and worktables, Perstorp is heavily involved in the design and development of the final products. Moreover, it is set to maintain its position having perfected the technology to produce laminates in continuous rolls which are hoth cheaper

in sheet form.
As one American analyst points out, roughly 90 per cent of Formica's U.S. turnover comes from traditional laminate sales for new construction and refurbishment. In Europe the pattern is roughly similar.

and easier to work with than

Within these markets DIY accounts for 30 per cent of sales (the proportion is roughly the same for Formica's competitors)-double the ievel of ten years ago. However, materials such as natural wood finishes are making a comeback at Formica's expense. He adds that although Formica's profits are expected

to reach a peak of \$35m (£29m) on sales of \$370m (£311m) in head on with each other, and 1984, "this has occurred on the Wilson Art has grabbed market back of the extraordinary boom leadership from Formica by in U.S. housing," which he being more aggressive. According to Ed Duncan, marketing repeated."

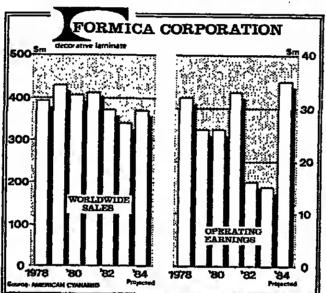
The question now is whether management can reverse this trend; by exploiding new markets for the product, par-ticularly in the Far East, and by extending its product range into areas less subject to the erratic fluctuations in new housebuilding.

group "will he more aggressive in launching new prodocts," and that the company can shake out the doldrums that have hit its electricity has to be avoided. performance in recent years. Joseph Salvani who follows

have a financial stake in the company, more sensitive to its profitability," he argues. Sterling agrees, and points to a number of new products on future growth,

Included in these are fiame retardent surfaces that are beginning to be used on panelling in airports and public bnildings. He also cites an "anti-static" material, to be used in computer rooms where static

Another new Formica product "ColorCore," the company for Goldman Sachs, quality tougher wearing plastic the New York investment bank, surface, which is becoming inagrees: "The new management creasingly popular with archi-will he leaner, and given they tects, for use on wall panels.



ColorCore, one Formica executive points out, like the other new products, "provides greater profit margins than traditional Formica products."

Currently, these products account for around 15 per cent of sales, and Formica hopes to boost this percentage substanbreakdown, the U.S. and Europe account for SO per cent of sates. Over the next five years these markets are expected to grow slowly, and de-mand for Formica products could be sluggish.

John Boanas, a vice-president at Formica and part of the new management team, concurs with this forecast. He insists, however, that "Formica's new markets are expanding." The Far East and Australia, which rar East and Australia, which currently account for 10 per rent of group sales offer "exciting prospects." be says. "Formica sales in Japan, Taiwan, Hong Kong and Singapore should grow by 10-15 per cent a year in the near future." cent a year in the near future."

As the leading manufacturer of decorative laminate surfaces for over 25 years Formica's name has virtually become the generic term used to describe the product.

But the boom in sales that occured during the 1950s and 1960s slowed dramatically by the mid 1970s. The industry was hit hard by both a levelling off in the growth of housebuilding, as well as by the impact of rising oll prires on its feedstock costs. its feedstock costs.

In 1977 American Cyanamid bought De La Rue's 60 per cent stake in Formica for £9.6m relieving the British group of what had become a cash drain. American Cyanamid's gain was less clear though one Wall was less clear though one Wall Street analyst says it "was partly motivated by the fact that Formica was the largest customer for American Cyana-

Though Formica bounced back to profitability, some analysts felt that American Cyanamid was not allowing it to develop new products aggressively enough. American Cyanamid claims

that the reason it is selling Formica is hecause it does " not fit into the group's long term strategy "-which is to specialise in pharmaceuticals and bio-technology. But it is also the case that, if as has been predicted, U.S. growth slumps in 1985. Formica profits could slip back to 1982 and 1983 levels. Then Formica earned \$16m (£13.3m) and \$15m (£12.5m) on sales of \$372m (£310m) and \$340m (£284m) respectively.
According to Salvani at Gold-

Management education

A remote form of learning

BY WALTER ELLIS

DISTANCE LEARNING: Is it Administration programme—simply a question and answer and work on them at their own simply a question and answer process in the Groves of Academe or is it truly a new art-form in which traditional methods are spooled on to the age of the cassette?

The answer depends, as always, on who is heling asked. The Strathclyde Business School, one of Europe's largest management learning centres. claims that its Open Executiva Programme (OEP), in which new management skills are acquired through homo study, is major new initiative."

This may be so. But listen to the views of two of its chief rivals. Henley, the Management College: "A re-packaging of lecture notes." Cranfield School of Management: "Oh yes, the fancy new word for a corre-spondenre course."

Cynics might suspect that The fact is that, while they admire the Scottish college's achievements overall and acknowledge the commercially go-ahead nature of the latest deal, they are not convinced that the OEP does not fall between two stools.

Conventional. residential courses, centring on lectures and tutorials, are based as much on personal contacts betwen academics and students as on written material. The most advanced "distance" courses employ video and audio tech-niques that open up new dimenadvanced "distance" sions of learning, but do not neglect the human dimension. There are regular meetings with

time or examination.

typically he middle-ranking company staff wishing to improve their career prospects through enhanced management skills. Some will study on their own initiative; others will be sponsored by their employers. They will aelect from a range of "subject modules"—each a reprocessed course taken from man Sachs; "This is the perfect time for American Cyanamid to sell off Formica." the existing Master of Business

comprise: accountancy and finance, quantitative methods, manufacturing management of human resources and economics of the business environment. Others are being prepared. No previous academic qualifications

The language in which business education is discussed among the cognoscenti can on occasions be almost impenetrable—a sign, it might be argued of academic insecurity. There is much talk of "continuums," "combos," "scramhled eggs," "supply side modules," "consciousness-raising" and the like. "We're really trucking "was one slightly archaic pro-

Strathclyde's competitors are being just a little bit bitchy.

tutors, and even short resi-dential courses.

What Strathclyde is attempting is, basically, a remote learn-ing procedure, hased on the printed word, in which personal contacts are reduced to a minimum. It aims to provide an "off-the-shelf" university-level training without constraints of

Students of the OEP will

pace in their own time: Modules currently available

are required but there is an option to take university examinations in the subjects

was one slightly archaic pro-nouncement

Expertise

But beyond the jargon, there is also a deal of hard thinking and proven experiese. British management may not be widely recognised as the hest in the world. It is improving fast, though, and that is of least partly attributable to the growth past 25 years.

The schools themselves are highly competitive over distance learning. This seems oppro-priate and explains much of the "damning with faint praise" "damning with faint praise" that often accompanies their inservations on one another. Strathclyde: "In five years, Henley will build up an open executive programme of lts own." Henley: "Ha! The only real distance learning in this country is run from Henley and the Open University."

Strathclyde: "The OEP is a vast opportunity for management." Granfield: "... not n particularly sophisticated programme."

It may not sound it from the above, but there is mutual praise, too. Each recognises that, beneath the fluff, the others are offering professional business education and trying out new methods. The rivalry is friendly, between academics who, as hired labour themselves, often move around.

truly new or is it a re-tread? Criticism centres on the fact that there is an emphasis on that there is an emphasis on the printed word, For cen-turies, this criticism would have seemed absurd. Civilisa-tion has been based on the printed word for more than 400 years. Television, video recorders and micro-computers, often linked, have changed that. Henley bases its distance learn-ing courses on super-allek Henley bases its distance learning courses on super-silek videos, often fronted by nationally-known figures, like television presenter Cliff Michelmore Cranfield is working with the Open University on a bittech video package and has developed a computer-based "Micro-Tutor" in association with Longmans.

with Longmans.
Strathclyde is, of course, very Strathelyde is, of course, verymuch aware of the potential of
electronics and is unlikely to
be left behind in this particular
race. Indeed, it is already running. Yet ita OEP is undeniably
more traditional than much of
the competition. The various
"modules" are even advertised as "off-the-shelf"
"already prepared and proven."

"already prepared and proven."
The new ground that is being broken, if any, is in the field of ovariability and easy access. Skilfully written courses, logically presented, are being put up as inres to busy managers who feel a need to learn more but do not have the become deeply

As Professor Neil Hood, associate dean of Strathclyde, puts it; "The Open Executive Programme is a bighly flexible arrangement which allows candidates to undertake manage-ment training without being absent from work and to atudy at their own pace,

Students will have access to tutors and libraries and will be able to attend weekend courses if they wish. Morcover, the programme has the support of the somewhat choosy Open Tech Unit of the Manpower Services

No one denies that Strath-clyde will offer a professional service to those undertaking the OEP. What is at issua is the praise, too. Each recognises that, beneath the fluff, the others are offering professional business education and trying out new methods. The rivalry is friendly, between academics who, as hired labour themselves, often move around.

Accepting this, the question of Ep. What is at issua is the wisdom of launching a paper-based programme at a tima when the trend is towards the computer and the screen, There may well be a lucrative niche left for such an approach; Strathclyde has to hope that experience and tradition still count for something.

TECHNOLOGY

COMPUTERS AUTOMATE PRINT MATCHING

How to finger a criminal

BY ROY GARNER IN TOKYO

per second.
The number 13 has already proved truly unlucky for a wida

In a 10 week period following the introduction of the NEC system, San Francisco authorities claimed fingerprint analysis had solved 220 felonies and 140 burglaries.

range of offenders in San Francisco, Alaska state and Japan where the new system has been installed. Take the case of the San Francisco Police Department, the first overseas

in a 10 week period following the introduction of the system, the San Francisco authorities the San Francisco authorities claimed fingerprint analysis had solved 220 felonles and 140 burglaries and led to the capture of 10 murderers, slx rapists and 18 robbers. Thia total "catch" normally would have corresponded to more than four years of detection work.

In Japan also, the system got off to a spectacular start with the successful identification of the culprit in a murder case which had gone unsolved for 15 years, and which was due for compulsory suspension just one month tater under the statute of limitations.

and accuracy of its fingerprint

SHERLOCK HOLMES would analysis and the quantity of have been fascinated hy, and the criminal community has much to fear from, "the 13 minutiae."

These represent the threshold quantity of fingerprint analysis system developed hy neccurate identity check by analysis system developed hy NEC Corporation of Japan.

Whereas in the past finger.

SHERLOCK HOLMES would analysis and the quantity of the number of minutiae which can be paired, the likelisation, an advance which could drastically made the number of minutiae which can be paired, the likelisation and hood of pair possibilities and the number of minutiae which can be paired, the likelisation and hood of pair possibilities and the number of minutiae which can be paired, the likelisation and advance which could drastically reduce the time required for cannot be paired.

The LSI chip used in the processing.

NEC is one of three major companies involved in the manufacture of co

NEC Corporation of Japan.

Whereas in the past, fingerprints were only useful for
"search" purposes if a considerable portion of the print,
ideally from several fingers, was
available, with the NEC system
even a fingerprint scrap is often
usable, and comparisons with
fingerprints on file can be comaf 850 prints

The study
which goes back over 100 years, or
centres on a general classification of common shapes (which
carry names such as "whorls,"
"loops" and "scars") and
examination of the points at
which goes back over 100 years, or
centres on a general classification of common shapes (which
carry names such as "whorls,"
"loops" and "scars") and
examination of the points at
examination of the p analysis of these latter features have concentrated on the direction and relative position of each "minutia." A major prob-lem however is that latent fingerprints (ones collected from the scene of a crime) often tend to he distorted, a difficulty which usually can be avoided when prints are carefully impressed upon the "tenprint" file cards used for reference. ence purposes. The NEC system claims fully to overcome the distortion problem by using an additional item of measurement, namely the number of ridges present between adjoin-ing minutiae, a factor which remains constant even where print distortion is present. Each latent print sample is

examined with reference to an X-Y axis positioned across the theoretical centre of the total print. (Where only a section of print is avallable preliminary work is needed to establish its approximate position relevant to the whole.)

In each quadrant thus formed, the minutiae closest to the X-Y axis are chosen for comparative analysis. Using a scanner, the position and direc-tion of each minutia is recorded together with the ridge count between it and its four closest neighbouring minutiae. If at least 13 minutiae are present then the identification process

Is possible.

Once the latent print data has been acquired it is fed into a fingerprint matching processor which has access to a data base Computerised fingerprint ID systems have also been developed by both European and American companies, but NEC Corp. ctaims to have a world lead in terms of the apeed possible "rotations" of a latent processing the companies of the apeed possible "rotations" of a latent processing the companies of the apeed possible "rotations" of a latent processing the companies of the apeed possible "rotations" of a latent processing the companies of the apeed possible "rotations" of a latent processing the companies of the appearance of of the appe print, and produces a score in

Kazuo Kiji, general manager of NEC Corp's EDP National Government Systems Division, who has supervised the entire fingerprint project, says that the development of the relative algorithm used in this comparison process was the most diffi-cult element of the program, and the factor most crucial to its success. The end result of the search procedure is a list of approximately 15 possible candidates, ranked in order of probability. It is subsequently a simple job for a manual check to secure positive identification of a single candidate.

Kiji says that the success of NEC's system can be measured in terms of a reduced total of candidates for secondary manual study and a high percentage of search " bits " recorded, and the search "bits" recorded, and the project's long-term aims are defined as "high cost-performance and accuracy." Technologies used in the NEC system include an image enhancement process to improve the contrast of rides for the process to the contrast of the of ridge features prior to final reading, and character and pattern recognition technologies used for the "correction" of distorted or wrongly rotated

images.

NEC bopes to use skills developed in these technologies in other fields and these could include palm-print reading and security applications such as systems for the management of personnel entry into restricted areas, and customs control.

The NEC system comes in a building block configuration with small, intermediate or large units available depending upon user data-base requirements. In the case of the San Francisco system, 300,000 file prints can be accessed and the prints can be accessed and the total system cost was \$2.6m.

NEC Corp says it is currently submitting budget proposals to over 100 prospective clients around the world, and expresses confidence at its potential competitiveness with other systems. Industry sources say however that the race is now on amongst producers to introduce a system which can instantly expressive.

Printrak company which is now part of the De La Rue group. Logica in the UK installed its

Focus computer fingerprint sys-tem for New Scotland Yard in August and has recently won an order from another European police force.
The New Scotland Yard

The race is now on amongst producers to introduce a system which can instantly categorise latent prints in terms of their basic shape classification which could drastically reduce processing time.

machine presently handles more than 440 searthes a day which is more than three times the num-ber of manual searches previously carried out by police staff. New Scotland Yard has about 45,000 criminal records in the Greater London area stored onthe computer with the aim of increasing this to 80,000. There are also plans for 0 national system over the next two to three years.

All fingerprint recognition systems are based on finding mathematical correlation be-tween minutiae after digitising

needed before prints are said to correlate which is one of the strictest requirements in the strictest requirements in the world.

Mr Trevor Armstrong, manager of the Focus system, said that Logica bad concentrated on the accuracy of matching rather than speed but conceded that the NEC system was the fastest on the market.

Gangsters in Japan, who traditionally have cut off their little fingers as a sign of loyalty

little fingers as a sign of loyalty

and courage, may soon need to

producers to introduce a system start reviewing the future of which can instantly categorise their other nine digits.

the fingerprint image. In the UK, a match of 16 minutiae are

COMPUTERISED SCORE TYPESETTING

Concerto for computer, laser and fast hands

BY ALAN CANE



Michael Mack-smith and Karen Callow working on the Musicwriter and music setting system

IT TAKES a real musician to image which was of insufficient splay the Musicwriter, a modified typewriter used to type musical notes on manuscript paper ready for the printer to turn it into sheet music.

It makes a real musician to image which was of insufficient smaller, specialist printers because of the high costs involved. Now Mr Foden reckons the can cut 30 per cent off the customary price of £30 or so a printer to the Kurt result worked.

It makes a real musician to image which was of insufficient smaller, specialist printers because of the high costs into the customary price of £30 or so a page in setting costs. It was West Central Printing,

part of the Premier Metropolis group, which introduced the Musicwriter into the UK in the late 1960s as a cost-effective re-placement for hand engraving.

Now the company is pioneer-ing again with what it claims is the first fully computerised music setting system to output directly to a laser photosetter, And it takes no less of a musician to play that.

According to West Central managing director David Foden, the machine is the result of an intensive search for an effective computerised music setting system; in West Germany he found a computer system devised by Professor Kurt Maas devised by Professor Kurt Mass to print a page of music, able to handle musicol notation. whether classical or popular. The output, however, fed to a simple pen slotter, gave an is often the prerogalive of the

printer to the Kurt Maas screen and keyboard—the result was a fast system production high quality camera ready copy. Much of the advantage of the

printers—lies in the very power-ful software developed by Professor Maas. Onre a score is stored in the tions.

Computer's memory, for exmuter's memory, for example, it is simple to request it not too far off when it will be ample, it is simple to request it to print out various instrumen-tal parts or to transpose between one key and another; at the press of a button, for ex-ample, the "Air on a G String" can be printed out, transposed to B flat.

new machine—which at £160,000 each is only for the larger music

Mr Foden reckons it now costs his customers 30 per rent less

Ha has sole rights to the Kurt Maas system for two years in the UK and is anxious to test export potential in the U.S. But even Professor Maas' system is comparatively primi tive. The music is written into the computer a bar at a time as a series of computer instruc

possible to write directly onto a picture of the score on the video screen.

He is also looking forward to

Professor Mass' latest inspira-tion—a machine which will print out sheet music directly from acoustic input—the music equivalent of the typewriter you con talk to. And IBM has already done that! West Central is on 01-636

Design and EDITED BY ALAN CANE Construct

Computing

P C Model extensions

THE LAUNCH of the IBM THE LAUNCH of the IBM PC and its derivatives sparked a whole new industry dedicated to creating slot-in circuit boards to enhance tha potential in these machines. Emplex Corporation is one such company which also preduced add-on boards for the Compaq, Columbia, Texas Instruments Professional and other IBM-compatible.

IBM-compatible Ris latest boards are the Persyst PC/Memory Plus Clock which supports up to 576,000 bytes of randem access memory; its clock/ calendar feature automatically time/date stamps the user's file, eliminating the need for manual input of this

It also features a software lock to prevent unauthorised access and the expacity to print up to 36 pages of data or text without interruption in data processing activities.

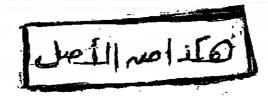
Components

Storing

digits AMERICAN TELEPHONE and Telegraph's Bell Labora-tories have developed a com-puter memory chip which can store 1m binary digits of information and which could

information and which could be in full production in 1986. Thomsen, president of AT & T's Technology Systems Group said he expected the new chip to be used in digital relephone exchanges, computers and special purpose products.

The new chip squeezes four times the amount of memory into the same apoce as the first version of the AT & T 256K DRAM but needs only half the operating power to give one-third more access speed.



ATTE

Free Street

Maria Cara

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Computers

Sma Comercial

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RIHAOTEM

THE ARTS

Architecture

Colin Amery

A time to raise the standard

happen to architecture in 1984 was that it moved to the centre of the public realm as a subject for discussion. The Prince of Wales did architects a service when he spike at the Hampton Court dinner to mark the 150th anniversary of the Royal Institule of British Architects, although bla remarks were highly critical of the profession. The Prince's decision to be seen to be on the side of the public

was an important one for architecture. It has been rare for a mem-ber of the royal family to hold any views at all about art and in the Prince of Wales the nation may have a champion and a patron at the highest level. He was right when he said he could see no reason why new buildings should not be both visually beautiful and

socially useful This year starts off with a sense of anticipation. There is a lot in the pipeline. We wait for the unveiling of the pro-posals for the new BBC Port-land Place radio headquarters to be designed by Norman

Foster—the winner of this year's Financial Times "Archi-tecture at Work" Award. Norman Foster is bound to produce an exciting and controversial new centre. There will be battles with conservationists over the demolition of the Langham Hotel and the 18th century houses on Cavendish built in the City by Mr Palumbo. look at Square. Is is possible to protect the long public inquiry in the nation. duce high-tech contextualism? early summer was an extraIn France, Norman Foster is to ordinary event. Very few of the leave to design the new cultural centre old arguments for the scheme in Nimes and his Hongkong and Shanghai Bank in Hong were seen to be valid anymore and the City of London and the Greater London Council first billion dollar building.

What will happen in the in-What will happen in the in-credible story of the National Gallery extension? Now that the Minister has turned down the "carbuncie" design by Ahrends Burton and Koralek, I hope that the new charman of the

has been fascinating has been

the developer bas been prepared to go to in order to try and trust the new chairman of the trustees, Mr Jacob Rothschild, rules his inspector's expected will abandon the plan to build rejection of the plan the whole commercial offices on the site question of the value of the to pay for the attic rooms for democratic process of millistic forms. It should be not institute that the plan the site of the the pictures. It should be pos-inquiry will have to be sible for the National Gallery examined by Parliament to raise sufficient private beneather. The Secretary of State has

A first section shows Marion

the expense and trouble that

July last year that York Minster burned—a sign that it is time for architectural reform in 1985? There is not much chance and architectural matters—he that the Secretary of State for is, after all busy abolishing the the Environment will allow the GLC. Perhaps when that is Mies van der Rohe tower to be done ha could take a long hard

It was during the annual conference of the RIBA in

look at the visual state of the What will the Thatcher era leave behind as monuments to its vision of Britain? There is a danger that it will be a half-Channel Tunnel/Bridge that will land in the South East of a country littered with small hich-tech industrial small hich-tech industrial estates. Further North the inner cores of formerly prosperous industrial cities will be in serious decline with the odd theme park or Museum of Industrial Archaeology on the outskirts, Much of the country could look like London's Dockland—a mixture of speculative

industry. An exhibition held in 1984 showed the pitiable state of

scale of all the new develop ment is too small and bears iittle relationship to the grandeur of the riverside landscape. A chance to make Docklands the most apectacularly landacaped river park in

iarge scale landscaping worthy of Capability Brown is still pos-sible. Dockland, like Merseyside, ia a victim of the lack of vision in Thatcher's Britsin. The eighties, with a large unutilised labour force, la the

perfect opportunity to make the country more beautiful—to date it has been missed. And what of the future of the capital? No planners seem fully cognizant or even to be studying the possible drastic decimation of the numbers of white-collar office workers. There is no doubt the new technology will render many pen-pushing and paper tasks

redundant.
Will office workers come to over-sized office blocks simply to be sociable—the idea of large

concentrations of workers is no longer necessary. For the remaining 15 years of the 20th century a programme of selective demolition is clearly called for. The miserable buildings of the 1950s and 1960s that blight so much of Britain, particularly in the field of public housing, should be scrapped. A national programme of bigb quality homes for the people and cities cleared of the excrescences of the recent past should be the priortties of the professions con-ceroed with the environment. There is no reason wby the skylines of the future should not be beautiful, the parks arcadian

Do the architects have the vision to make the second half of the 1980s e time for the dolls' bouses and tin sheds for transformation of Britain into a land of beauty? This is not a mission for wets but a serious to raise sufficient private bene. The Secretary of State has showed the pitiable state of hard-bitten policy that would factions to erect a new wing not really had time to show any development in Dockland. What take guts to achieve—it is time that utilises the whole site. particular concern for aesthetic a missed opportunity! The for a raising of standards.

again, and the work-places agreeable, small-scale and

Rare excitements close a worthy year

certs of worthy and pleasurable savage account of Bartok's most but not exceptional quality; the austere and savage or bestral Sinopoli, at least for the time usual sprinkling of disasters; score, The Miracuous Mondorin, being, is the Philharmonia's and a handful of rare excitements that one wouldn't have missed for the world—that is the regular pattern, to which 1984 was no exception, which goes to make up almost every

musical year. As it happened, the most not-able concerts, best and worst, landacaped river park in were largely confined to the last missed. Hills, lakes and forests six months of the year perhaps could have provided the setting the most memorable event was for new homes and businesses Pierre Bouler's return in Febwhile providing East Londoo ruary after a long absence to with the lung it so badly needs. Milton Keynes has abown how Orchestra: Twenty years before, almost to the day, Boulez bad taken the rostrum for the first time in front of the BBCSO: and bis return although it billed ooly as part of the LOCB's con-tinuing "Music of Eight Decades" series, inevitably bad

something of an air of anniver-sary celebration. There were no announcements, no speeches Boulez consented to introduce the evening with a pre-concert talk). But the Festival Hall was nearly full for the occasion, and Susan Bradshaw's tribute In our programme doubtless summed up the sectiments of many present: "Just as Pierre Boulez, the composer, influenced the styles and composi-tional techniques, as well as the musical thinking, of a whole generation of his contempo-raries during the 1940s and 1950s, so the work of Boxlez the conductor and programme-planner was to have an equally far-reaching effect in moulding the babits and attitudes of a new generation of performers and concert-goers during the 1960s and 1970s. . . It is fascinating to speculate that the history of Western music over

the past 30 years or so might have evolved quite differer by had it not been directed to auch an extent by the energy and determination of this one extraordinary musician. . ."

Boulez began bis programme,

just as he once used to in his trail-blazing days two decades ago, with Webern's op 6 and op 10. The manner has not softened, but it has relaxed with the years: less glacial exacti-tude, more vivid dramatic point-

A solid succession of con- he gave an exhilarating and the same orchestra, some 16 they would today be the elder firing the BBC Orcbestra to an new principal conductor. His

Jeffrey Tate's conducting had already been a notable feature of two English Chamber Orchestra seasons, but his concert with the LSO in July marked his debut in a full-length pro-gramme with a major symphony orchestra. The evening was all Beethoven; and his account of the seventh symphony in par-ticular confirmed all our expectations that he might prove to be a Beethovenian of quite

exceptionai stature.

months previously.

Sinopoll, at least for the time

statesmen of their field—for they first appeared in public

firing the BBC Orcbestra to an electric display of anniversary way with almost any orchestral their 30th anniversary, however, eloquence.

Way with almost any orchestral their 30th anniversary, however, work (and not merely a Mahler the Borodin's two violinists symphony) is to latch on to as defected ("emigrated" is the work (and not merely a Mahler symphony) is to latch on to as many "effective" bits as possible, inflate them out of all sense of context, and play them for all they are worth—hoping that not too much of importance happens in between. There is nothing anywhere in his direction that is more superficially evocative of the real task of the conductor: the powerful control of phrase, rhythm, texture and direction. For Sinopoli a triple-fortissimo or triple-planissimo—he is very

loudly or very quietly; he

by insubstantial bridges.

The most insistent resonance, partial to cxaggerate dynamics which coloured every perform—means everyone playing very

polite word) to Holland, and thence to the U.S.

That should, on the face of of our age's great string quarteta. But it was their, and our, astonishing good fortuoe to discover in Mikhail Kopelman and Andrei Abramankov two much younger violinists who were not younger violinists who were not merely technically and musically the equals of those they replaced, but also perfectly attuned to the ensemble's style. The sold-out Wigmore Hall which greeted their re-formed London "debut," also in July, could justly acclaim the Boro-din still, as they did with a standing ovation, as one of the world's great string quartets —possibly indeed the greatest, fresher and more exact in their

one year before the Amadeus.

in 1946. A few months before

interpretation, more thrilling in their technical perfection, than they ever were. evident does not conceive of music in contrapuntal or con-It was one of those memorable recitals, of rare and mogical quality, during which no player seemed able to put a nective terms, but rather as blocks of primary colour linked The result of such lurching range of sonority, most immediately striking, is immense: from from technicolour screen to technicolour screen, without any more evident purpose in the lushest chamber-orchestral swelt (Kopelman and Abramonany more evident purpose in view than to achieve the next as quickly as possible, is deeply disturbing: a vision of Mahler principally as purveyor of tawdry, cheapjack effect, an "orchestrator" merely of cynical, vulgar effusions. Sinopoli's treatment—a veneer of "great music-making" without any of its actual substance—is in fact pure kitsch. His coy, self-conscious delivery of the andance second movement kov playing together make a sound almost as large and rich as an entire string section to a wonderful, pure non-vibrato blend. The Borodin are one of the few great quartets still playing and at the height of their powers who are old-fashioned enough not to submerge their music-making in a sea of vibrato, but use it selectively to the andante second movement especially had its exact counterprecise expressive ends. Every page of their recital was an object lesson not much in bow part in the ghastly drawing and bronzes (the very acme of the new GLC populist aesthetic) of Tom Merrifield exhibited in the

to use vibrato, as how not to

use it when its use is plainly

WYONE Their finale of the second quartet of their namesake Alexander Borodin was a marvel of subtle tonal interplay: a delicate web of vibrato and non-vibrato, defily spun, then vanishing like smoke — mirrorplay of line and colour, the purest exhilaration. In the darktude, more vivid dramatic pointing — more concern especially for the poetic separation of sounds, and the allences between them. They were stirring performances, bright, brilliant, exquisitely shaped — has bis once unbearably bectic reading of Webero's Das Augenlicht, I wonder, similarly mellowed? For his floale, after his own early Le soleil des coux and the more to that sounder the direction of Giuseppe and the Festival Hall in second to the worst performance of put up with it for iong?

Improrisation sur Mollarmé III, slso conducted by Sinopoli, with second to the more of its original members, and he was uncompleted the gap. Turning the first part of the finale into a piece of wide-screen Hammer-film music, and the second part in film music, ness of Sbostakovich's eighth quartet the Borodin found a

Dominic Gill concludes our review of music in 1984

very serious clarity of Tate's treatment invited the parallel. and bis open, direct and unfussy, but meticulously detailed working of every page of the nusic confirmed its apiness. His tempo for the first movement of the Seventh was not exactly Klemperer's, but the manner had an unmistakable Klemperer stamp: a slow, powerful momentum to the poco sostenuto-the only speed at which the ghostly wind sforzandl which accom-pany the rising string scales actually mean anything; the important viruce repeal observed; the whole movement wound, but without the least trace of frenzy, on a dark, relentiess spring.

There was a wonderful sense of unalterable, onward-flowing pulse to the reading—the clarity and naturainess of Tate's expressive rubatos, so firmly under-pinned as they are, make them particularly easy to follow. The scherzo was drawn in a hard glare of sunlight, bright and sharp. The finale had irre-sistible rhythmic bounce, as well as unflagging energy and impetus: the pace wasn't fast, but the movement all the same left me breathless. The LSO have not had a Beethoven con-

Festival Hall's foyer two floors

Sinopoll zipped through the

Urlicht with immoderate baste, allowing Brigitte Fassbaender

no time at all to unfold her

"Roschen." The explanation was plain: far too long bad passed since the last orchestral explosion, and he was uncomfortable with the gap. Turning the first part of the finale into a piece of wide-screen Hammer-lim much and the record near

Median/Sadler's Wells Clement Crisp

Framed by the tried and true is a form of extended acade-charms of Les Potineurs and mism, sometimes brusque, im-The Lady and the Fool, pelled on its way by the repetitions and dynamic ten-Jennifer Jackson's Median had its premiere on Thursday in the final programme of the Sadler's Wells Royal Ballet season. Her shifting in its often abrupt first work for the company, incidents as in a kaleidoscope, Common Ground seen last against Ella Huhne's handsome May—suggested that here was in sleek costuming whose an original classic creator, and abades are chiefly inty blues Median confirms all the good and mauves. impressions made by that piece.

Miss Jackson is, first and Tait manipulated, manhandled by the six males; the developforemost, very responsive to her music, and she has new brings in the other five women chosen a score, minimalist in in an ensemble which responds slyle, by Stephen Montague, acutely to the musical exposiwhose driving estimate rhythms than and then places two suc-and melodic patterns are much dances.

The musical exposition, and then places two succinct duets amid general
dances.

We are in an imaginative sonority - music very well world that has a ritualistic air, argued by the SWRB orchestra and one whose atmosphere is

under Barry Wordsworth. Miss Jackson's subtitie—"six little conventional in the dance Miss Jackson's subtitie—"six of one and half-a-dozen of the other"—can be taken as an indication about casting: six men are deployed variously, with Marion Tait and Stephen Wicks, Learne Test and Stephen Wicks, Learne Benjamin and Nieholas Milling-tasting and I am eager to see to the service of the subtractive in the support of over-inflation; and I am eager to see to the subtractive in the support of over-inflation; miniature and the 11th Hunding miniature and The second secon

Michele Campanella/Wigmore Hall **Andrew Clements**

sions of the score, The result is dancing hard-edged, un-sentimental, the movement ago in the Elizabeth Hall to a pitifully small audience that included some dutiful eritics. They were enormously enthusiastic about what they heard, and when on Saturday Campaand when on Saturday Campa-nella returned, this time to the Wigmore Hall, it was to a creditably full bouse. His recital demonstrated that last year's display in Scarlatti and Liszt was no fluke: Mr Campa-nella is a pianist of a very bigb

ment of the choreographic ideas calibre indeed. If the crowning glory of his programme was the fearsome account of Musorgsky's Pictures which made up the second half, it did not overshadow the dapper trio of classical sonataa that preceded it. Clementi's G minor sonata Op 7 no 3 was played for its worth, exploit-ing the full range of modern keyboard sonority without any wholly choreographic: there is

Perhaps someone reads re-views after all. Almost unknown turned with great aplomb, and in Britain, Michele Campanella the finale rattled off at tredous speed without ever reinquishing control. Pictures from on Exhibition

raised the temperature appreci-ably. It is more than 10 years since I heard a performance of this popular work which equalled Campanella's in its superbly sustained intensity and vebemently projected imagery. The very different toccatas of "Tuileries" and "Limoges" produced beautifully poised playing; the grond guignol of "Bydlo" and "The lint on Fowl's Legs" brought out tremendous reserves of tonal power and an unremitting dramatic focus.

Perhaps there is more tex-

tural variety to be extracted from "Catacombae" than bere, but any such small reservations were entirely swept away by the overwhelming conviction. Two encores — a Prokonev

It may be a far cry from the Civie Theatre, Halifax, to the Festival Theatre, Chichester, but pantomime is the great audience leveller and any evidence of Mrs Thatcher's two nations of the North and South in hard to pin down Halifax

is bard to pin down. Halifax has not hosted a professional

panto for many years; Jack and the Beanstalk starring Helen

Shapiro, Frazer Rines and Duggie Brown, is this year's

in the Wood, splendidly designed and costumed by Hugh

Durrant, has a cast led by Spike

Milligan, Evelyn Laye and Bill

The Civie is a cavernous

Pertwee.

The Nutcracker/Festival Hall

below.

Clement Crisp

brought an opportunity to see some of the artists recruited to the company since Peter Schaufuss became artistic director. The staging now look care-worn and, with ita 400th per-

The current marathon of Nancy Ballet Theatre Français, Nutcrackers undertaken by gave Karl no less charm, and in Festival Ballet has at least the brief duet preceding the snowflakes wattz was a most poetic cavalier. His interpretation was everywhere marked by urgent need of cosmetic surgery to brace its sagging chops, but at the week's end 1 was impressed by the sweetness variations very prettily. She brought to their participation is a natural, easy dancer as in the mélée of the festivities she is an actress, knowing no by Katherine Healy and Patrick Armand as Louise and Karl Armand as Louise and Karl Hera is, though, the dancing (Drosselmeyer's nephew and the eponymous hero).

Raffaele Paginini from the Rome Ballet also made 2 good Impression as Karl at an earlier mental brightness well matched with Janette Mulligan'a dulcet technical fervour: splendid the Louise. Among supporting way the dance bursts forth, brave and clear, in the first act cut, buoyant Fritz. There was cut, buoyant Fritz. There was formance oot far off, stands in and in the final pas de deux. little clear-cut or buoyant urgent need of cosmetic surgery Miss Healy is, of course, very about the orchestral playing: the score sounded by turns the dancer'a world.

gabbled and mechanically dry even with the routine of twice a-day performance.

As a note in passing let me recommend, amid the tasteless Hall foyers, an exhibition of photographs by John Austin which are of exceptional interest as sensitive views of

Concerts at Christie's

Christie's becomes the setting wine. for three evening concerts for three evening concerts. The venture is part of early this year by the Royal College of Music ebamber players. On January 14, February 11, and March 11, at 6.30, there will be performances of works by Bach and future concerts to belp small Mozart. Cost of admission is musical ensembles.

The venture is part of

Arts Guide

Music/Monday. Opera and Ballet/Tuesday. Theetre/Wednes-day. Exhibitions/Thursday. A selective guide to all the Arts ap-Dears each Friday."

Music

by Symphony Orchests conducted by Peter Ectvox. Karlheinz Stock-hausen, sound projection, Bernhard. Wambach, piano. Stockbansen, Barbican Hall (Tue), (6388891). Stockhausen series continues throughout the week.

PARIS

Teresa Bergamas, mezabeoprano, J. A. Perajo, piane: Purcell, Schubert, Schumann (Moo). TMP-Chatelet (2334444). (2331422). Thestre Colonne combitted by Claude Bardon with Eliane Tanich-

off and Yvan Drankot Mosestraky, Tchaitovsky (Mon): Salle Pleyel (5610830). Margarita Zimmaraman recital, Dalton Baldwin, plano: Brahmis, Wag-ner, Tchalkgusky, Rachmaninov, Hahn (Moo), Thesire de l'Athanés (142 577)

(1426727).
Inchestre National de France with Temas Vasary as conductor and plane soloist, Chindula Janowitz, soprano: Mozart. (Da). Thaker des Champs Elysées (723477).

ITALY Miles: Tentro alla Scale: The souremo Renata Scotto with the planist Thomas Fulton, Handel, Scaletti, mi, Linzi and Popoini, (Mon) (809126).

[ame: Auditoria di via Della Condi-lazione: Gerd Albrecht conducting Ravel's plano connecto in G (planist

Pacio Restant) and Orff's Carmina Burans (Mon and Tue). (6541 044). Bosses Oratorio del Gonfalma (viccio della scimia 1/B) via Giulia: Gogliel-mo conducting and playing the vicmo conducting and playing the vip-lin solos in five Bach concertos (Thur). (655952).

withm Classicom, Berlin, with Helen Donath, soprano, and Har-mann Prey, baritone. Lachnere, Doninstii, Schubert and Nicolai. Mu-sikeerein (Moo). (658190).

Junko Tsuchiya, piano. Bosendorfer Sani (Mon). (056851). Vienna Symphony Orchestra conduct-ed by Christoph Eschenbach with Junes Franz, piano. Brahms and Strevinsky. Musikverein (Wed and Thur).

Thur).
Andrew Wersen, piano. Chopin. Bosendorier Saal (Wed).
Kachi Quartet, Dvorak, Mozart and

NETHERLANDS and Siher Pekinel, two pianos, Mo-sart, Rachmaninov, Stravinsky (Mon); Amsterdam Philharmonic conducted by Thomas Sandari conducted by Thomas Sanderling with Cristina Ortiz, piano. Webern, Grieg, Schumann (Tue); Recital Hall (Tue); Sarah Walker, mezososoprano, and Roger Vignotes, piano. Wolf, Schumann, Sibelius, Grieg, Dvorak; Riccardo Chalify conducts the Concertgebouw Orchestra with Katiz and Mariello Labeque, pianos. Puc-

Jan 4-10

cini, Gershwin, Trhaikovsky (Wed and Thur). The Orlando Quartet performs Haydn, Smetana and Beethoven in the Racital Hall (Wed). (71 83 45). Interdam, de Doelen, Lucy van Dael, violin, and Glen Wilson, harpst-chord Bach (Recital Hall, Mon): Rotterdam Philharmonic under Ivan Fischer, with John Mostard, bassoon. Haydin, Vivaldi, Bartok (Thur). (142911).

trecht. Muziekcentrum Vredenburg The Hague Philharmonic conducted by Hans Vonk, with Rund van der Meer, baritone. Mendelssohn, Cim-arosa, Saint-Saens, Bizet (Tue); The Orlando Quartet. Haydn, Smetana,

Beethoven (Thur). (314544). NEW YORK

New York Philhermonic (Avery Fisher); Zubin Mehta conducting, Gidon Kremer, violin. Schumann, Sofia Gubaidulina (Tue); Zubin Mehta conducting, Kiri ta Kanawa, sopra-no. Elgar, Wabern, Strauss (Thur). Lincoln Center (7998585).

Sectional Symphony (Concert Hall): P. D. O. Bach conducting Pops con-cert with mixed programme (Thur).

CHICAGO Chicago Symphony (Orchestra Hall):

Pantomimes north and south

Michael Coveney

sign is well up to standard, Trevor Bradford is a fine hiss-able villain and Helen Shapiro'a able villain and Helen Shapiro'a
Jack is a triumph. Hers is a
splendid, musicianly volce.
Having sold the cow for a bag
of gold (she thinks), Ms Shapiro
sings "Walking Back to Happiness" as if she bad fust
received the sheet music in the main offering in the West Riding, for the Leeds Grand is
occupied by Opera North, and
the Bradford Alhambra is
closed for repairs. Chichester's
panto is now a fixture; Babes Yourself Go," Irving Berlin's
the West Ridpost that morning; good to
the best contemporary dames
occupied by Opera North, and
the Bradford Alhambra is
cheerful admonition to the
villagers of Ambrosia: "Let
comic genius of a performer
like Frankie Howerd or Spike

classic standard from Follow Milligan.

Certainly the Halifax audia brilliant creation at euce, such as it was, was more Chichester, a childish baddle in robust than their Cicestrian a girlish wig and parti-coloured counterparts. Respective ticket frock hanging on to Bill Victorian baro which looks top prices are £4.75 and £7.50. empty even with a moderately Sensible, durable clothing in good attendance. The Halifax Yorkshire, whereas the South locals are showing as much sup- Downs yield lots of pleated to a little torture?" growls the port for their show as they do skirts, nylon fur and little girls Sheriff of Nottingham. "Hello,

the Fleet.

and circumstance.

When you have a top class panto performer, the script does not matter very much. The genuine star brings his own routine and, more importantly, draws up his own contract with the audience. This is as true of the best contemporary dames

— Stanley Baxter and Rikki

Milligan's Spike the Stupid is Pertwee's expert accomplice like an infant with its com-forter. "What would you say

It may be a far cry from the Shay. Which is, in other words, cipal boy is Janet Mahoney, phic Spike. This tuspired whose Robin Hood is a splendld display in controlled lunacy is trouper enmeshed in a delight a joy beyond measure. And part pantomime is the great sign is well up to standard, fully incongruous patriotic Act how nice to see Evelyn Laye tudience leveller and any Trevor Bradford is a fine hiss-Fairy Queen.

But the show without Milligan is hampered by the awful script of the alleged pantomime king. John Moriey. This king is ripe for usurpation. I have no memory of anything witty or earn pleasant in his pantomic statement. or even pleasant in his pantomimes of recent years, and it is high time managements justified their large panto profits by turning to so like David Wood or (why not?) Tom Stoppard for a fresh seasonal coat of paint. Children deserve nothing but the best at Christmas, and the Morley pantomime is anything hut.

Frazer Hines as the Halifax Simple Simon is infinitely superior to the Chichester equivalent, Simon the Spyman (Peter Sowerbutts, embarras-sing). Simon must always say "hiya" and elicit a response. for the football team ont at the in velvet. The Chichester prin- little torture" replies the sera- This Mr Hines does, in agree- skin.

able fashion, as well as hand-ling children with tact and charm. We all stopped greet-ing Mr Sowerbutts after his third or fourth entrance. Duggie Brown is a lovable dame, exposing the Halifax faithful in a rancous, funny "strip" routine in the bedroom, an act Barrie Gosney's restrained Chichester dame hints at and then pusillanimously drops.

But if Milligan can get away with teeming references to Robin's "Big Bum" in Chichester, why cannot the dame drop 'em? The answer to that is nothing to do with audience primness, bul with an actor's art. Milligan is a comic anarchist, a much loved jester, whereas Mr Gosney is a mere mortal jobbing talent whn remembers that be is in Sussex and not, weil, in Halifax. He should be boider. They can take it, guv! As pantnmime so gloriously confirms each year, in North or South, in East or West, we are all the same under the

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Arms talks: a very long haul

THE ARMS control talks which negotiators is bow to bandle open in Geneva today may mark a problem which is both pre-the beginning of an important phase in the political relations intentions, and yet also far between the superpowers, but they are unlikely to lead to rapid progress towards agreerapid progress towards agreement on arms control as such. Probably the best that can be boped for is that this first highlevel meeting between the two foreign ministers will lead to a serious and consistent effort of negotiation, even if it lasts for many mooths, or even

years. The first obstacle to rapid progress is that leading figores in the Reagan Administration are deeply divided over the relative priorities to be accorded to arms control or national rearmament. For this reason alone, the U.S. team is unlikely to be in a position to offer unambiguous and plausible proposals ecross the entire gamut of issues which are

bound to be on the agenda.

The second and related obstacle is that President Reagan's stated objective of developing a missile defence system, known as the Strategic Defence Initiative, explicitly aims to move away from the nrinciple of mutual deterrence based on mutual vulnerability. which has been the keystone of all arms control agreements aince 1972. As a result, the central question facing the negotiators is whether they must go back to first principles in debating the essectial ingredients of arms control, or whether the doctrinal implica-tions of the SDI can be beld over until later.

Negotiations

At this atage, the U.S. programme of research into exotic technologies for space-based interception of missiles does not infringe the corpus of arms control deals: for that matter, the Soviet Union has long eogaged in similar research ltself. But the Anti-Ballistic Missile Treaty of 1972 limits each side to one cluster of 100 anti-missile missiles, and requires new negotiations if missile defences based on new physical principles (e.g. lasers) should be created. What dis-tinguishes the U.S. position is that the Administration is publicly

much as anything else, which bas lured the Russians back to the negotiating table. They bave made it clear that the talks must cover defensive as well as offensive systems; for if the U.S. abould steal a march hy developing an effec-tive defensive system first, the Soviet Union would bave no incentive to agree to cuts io its nffensive weapons; on the contrary, unless it saw a way to negotiate a smooth transi-tion to a situation in which both sides bad effective defences, it would bave reason to multiply its offensive weopons to swamp any possible U.S. defence. In other words, the main danger is that we could be facing a fresh arms race of an estirely new order of magnitude, rather than a reinforcement of the arms

Implications

Ostensibly, the U.S. administration accepts that the new "umbrella" talks should lead to oegotiations on defensive and offensive weapons. At one time indeed, it looked as though the American research programme might be a bargaining chip in the negotiations, starting with the anti-satellite weapon now in the testing phase. But the most recent pronouncements from the White House show the President remains firmly com-mitted to the defensive objec-tive, and that what is on the table is only an offer to discuss the implications of defensive technologies, in the bope of managing the transition from mutual deterrence to mutual defence.

Such a transition would be extremely difficult to manage from a technological point of view. It would also require a much greater degree of political trust than bas ever existed between the two superpowers. It is therefore possible that the Russians are preparing for a very long negotiation, in case President Reagan's successor should take a different view of the SDI and its implications; it

publicly committed to an is likely they will press for a objective which, if successful tightening up of the ABM would sweep away the ABM Treaty, which comes up for review in 1987; and it is virtually The successful conclusion of certain that they will maximise the SDI research programme their propaganda, especially in will not come for at least 10 Europe, to depict the U.S. as ears, and it may never come. the main stumbling block to an The delicate dilemma for the arms cootrol deal.

Useful rethink on state industries

TWO HUNDRED years ago Dr should be given contracts which pect of being hanged in a fortnight concentrated a man's mind wonderfully. Today it would seem that a newspaper leak followed by a public row can echieve almost equally good_results with pollticians and Treasury mandarins.

posals for updating the statu-Britain's nationalised industries operate certainly eppear to have benefited greatly from a couple of months' careful Last autumn the Treasury

was forced to shelve its origi-nal plans for putting the Government's relationship with aome 20 state corporations on more consistent footing backed with new, formal legal

Outraged state industry ebairmen complained at tha time that the first set of proposals were at best half-baked and at were at best hair-baked and at worst a thinly-disguised attempt to put the nationalised corporations firmly under Treasury control. Yet even the most stringent of the Treasury's ics admitted that the sant legal framework was e presant regal trainework was c jumbled, inadequate and often

outdated mess.

The new consultation document issued at the end of last month after a Treasury rethink puts forward a number of aensible suggestions for reform. The document addresses itself to five areas: borrowing and guarantees; accounts, reports and audit; financial targets; balance sheets; and the terms of appointment of state industry

The proposal for introducing greater consistency into that presentation of state industries' reports and accounts is certain to be widely welcomed. This suggestion was one of the few to he given general acceptance when the Treasury came up with its original scheme last

Nor is there likely to be much controversy obout the latest recommendations for sacking chairmen and board members a cause of much fluttering in the dovecotes last year. The idee now is that board members

may allow for instant dismissal but which will also provide for the payment of adequate com-

The Treasury also wants to conduct their businesses with view to achieving the financial targets laid down by Ministers State corporations already have financial targets—usually

a specified rate of return on assets spanning a three to five year period end set after consultation with the industry con cerned. But in many cases the financial targets are not legally enforceable. There would seem to be some

merit in drawing financial targets inside the legal framework -not least because the enshrin lng of a three to five year medium term view in law chould give the industries them selves a measure of protection against precipitate political

Yet perhaps the most interesting of the Treasury's proposals is that for restructuring state industries' balance eheets. The idea is that it should become possible for all or part of a state company's reserves to be capitalised as debt and public dividend capital.

The net effect of this could be that the profitable industries -such as gas and electricitycould start paying a dividend to the Government instead of being forced to hand over slices of their reserves by way of a negative external financing limit, the mechanism which currently forces them to "lend" money to the Exchequer.
This measure could go some

way to ending the well-publicised baggling that goes on at present over EFLS and over such things as snergy price rises. Ir could also achieve the aim of improving financial discipline within the profitable state industries them

But the lotest recommendations would seem to offer not only o much-needed element of standardisation within the state sector but also the opportunity for greater commercial stability.

NTENSE behind-the-scenes

negotiations are now going on to prepare the ground for tha Government's now framework of investor protection. It may well take another two years before all the required legislation is in place (see below). But the alm is to set up and hegin to staff the key organisations within the next few months.

If the elaborate place work.

If the elaborate place work, investment scandals like the collapse of M. L. Doxford or Norton Warburg, or the disappearance of financier Keith Hunt, will be much less likely to bappen. And, in any event, investors will he much better protected through compensation and other arrangements.

The crucial challenge for the

Government, bowever — and, more particularly, for the Minister responsible, Mr Norman Tebbit, Secretary of State for Trade and Industry—is bow to atrike e credible halance betwen self-regulation—the supervision of practitioners by regulators drawn from within their own ranks—and statutory control of the exercise of Gov-erument power through the law of the land. In drawing up the White

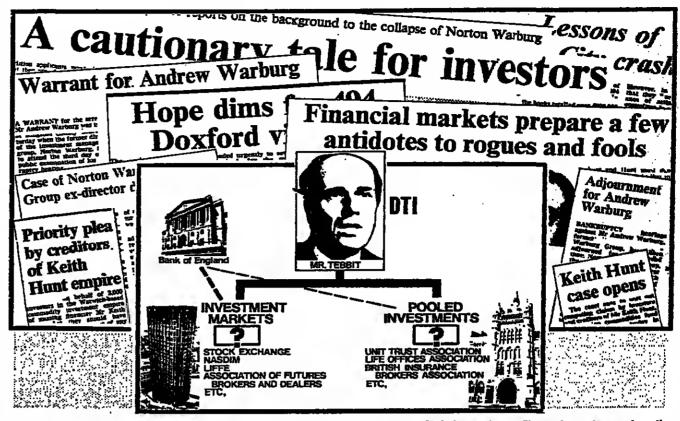
Paper oo the subject which will appear later this month, Mr Tebhit will have to persuade the City that it will still be operatng a system of self-regulation while, at the same time, re-assuring Parliament and the public at large that be is strengthening statutory respon-sibility for the protection of

Self-regulation bas advantage that practitioners are more likely to he able to spot wrongdoers and can react very quickly to breaches of the rules. They can impose flexible and easily changed codes of conduct, whereas Governments bave to act through a creaking legal framework which may get years out of date.

On the other band self-regulation depends upon the practitioners being concerned with the public joterest. It is only buman nature, bowever, that they should be tempted to use their self-regulatory powers to discriminate against those UK INVESTOR PROTECTION

A delicate balancing act

By Barry Riley, Financial Editor



offering innovation or uncomfortable competition. In practice, the Government needs the City's co-operation— otherwise Mr Tebbit would have to organise a vastly complex supervisory network bim-eelf. The Department of Trade was bluetly told by one leading merchant banker that be would be willing to second ataff to a new watchdog agency if it operated on the basis of selfregulation. If it was atatutory, be would not.

At the same time, Mr Tebbit caonot simply hand over statutory authority to a group of self-appointed self-regulators. He would be howled down by

Parliament if he did.

The plan is that legislation will define the kind of bodies to which Mr Tebbit can delegate authority. The Secretary

of State will retain key rights to appoint members of the bodies. And the agencies will be required to deliver annual reports to Parliament on their stewardship. Moreover, they will be monitored closely by the Office of Fair Trading to make sure that they act io the public interest, and not out of self-

agencies will be given more or less a free hand to run their own ahow-which will include finaocing themselves, probably out of levies on investment

But apart from all that, the

will need to be converted from act against investors if regula-trade associations into self- tions were inadequate, regulatory agencies with teeth.

And pressure is being put on less organised sectors—such as the commodity futures brokers — to establish new hodies. The need to step up standards

of lovestor protection has become clear over the past few years because of a string of scandals, mostly involving licensed dealers and firms dealing in futures.

But it bas become even more pressing in the context of the Government's attempts to encourage the City to become

more competitive and more loternational in its outlook. This transactions.

They will act through a whole changes in the structures of range of second-tier ageocies.

Some of these, notably the Stock Exchange, already exist. Others

Tierhattonal in its outdook, range is leading to revolutionary the structures of many changes in the structures of many changes in the structures of many changes in the structures of multiplication of potential coofficts of interest which could As an answer to such con-

flicts, there is much talk of "transparency which covers the availability of information — sometimes freely fidential, but at any rate available to official investigators pursuing an audit trail in cases where malpractice may be

This area of transparency is one in which the City's new regulators will have to fight bard. The financial markets have been traditionally secretive so that in the Stock Exchange, for example, bardly any information on dealings is available, io notable contrast to what happens io New York.

expected.

To belp them in such battles the regulators will have considerable authority. They will have the power to issue or to withdraw the licences which

will be required under statute by various types of practitioners. They will also have the power to fine seeple who trade improperly (though there will be a right of resort to an Appeals Tribunal).

It is not going to be easy to strike the right balance. In the City, there is considerable suspicion of the nature of newstyle "self-regulation" If the members of the new bodies are effectively going to be appointed by the Secretary of State. Alternative schemes whereby the directors of the agencies could be appointed only by practitioners, have been rejected by the Department. There might not be any serious problems with Mr Tebbit. But there is bound to be concern in the City shout what might happen if somebody like Mr Tony Benn were to become Secretary of State.

to become Secretary of State.

Meanwhile City practitioners continue to argue that the Government is still falling down on what is unquestionably its ment of the law through the courts. It remains notoriously difficult to secure convictions is cases of financial fraud. Receotly the Department of Trade has made an attempt to

bring the prosecution of fraud mora fully within its own orbit, rationalising a situation in which responsibility is awawardly shared with the Director of Public Prosecutions and the police Fraud Squad. This regrouping would more closely resemble the practice of the Securities and Exchange Commission in the U.S., where an active enforcement division undertakes prosecutions in support of the SEC's regulatory functions.

But the police and the DPP baye firmly told the Department that they wish to maintain their independent roles in this area, showing how tricky it is for the Government even to get its own ect together.

This only underlines the size of its task in persuading the practitioners of the investment markets to co-operate with any enthusiasm in ushering in a new era for investor protection

WHY THE WATCHDOG SHOULD BE READY FOR THE 'BIG BANG'

At the beart of the new framework for investor pro-tection is a plan to devolve much of the day-to-day respon-sibility for supervision of the investment markets to two new private sector bodies. But at the same time the ultimate responsibility will remain with Mr Norman Tehblt, the Secretary of State for Trade

and Industry.

Exactly bow the Department of Trade and Industry can delegate these responsibilities and endow privatesector bodies with the statu-tory power which they will need to assert their authority is yet to be elarified. It could prove controversial when the legislation comes before Par-Some time later this month, he Government will publish

Protection which will set out the DTFs plans in great detail. It will not, bowever, spell out the exact number and nature of the watchdog agencies, concentrating rather on a more general description of the way in which agencies can be recognised by the Secretary of State and anthority delegated to them. Two is thought to be the

appropriate number in present circumstances. This emerged from discussions in the summer with City Interests, including a working party set np under the chairmanship of Mr Marshall Field, chief general manager of Phoenix Assurance and former chairman of the British Insurance Associa-tion, and the Governor of the

Bank of England who in turn consulted a Governor's Advisory Groop consisting of ten leading figures from the financial markets.

Already the Department, in close co-operation with the Bank of England, is taking steps to form the new supervisory agencies which will act as watchdogs to protect investors. The larger of these bodies

will be an umbrella agency which will regulate all the Clty of London's main investvise the Stock Exchange and will take over much of the responsibility for monitoring licensed dealers in securities. the various financial and com-

which until now beve been largely ontside any form of statutory regulation. A second body will he ziore narrowly based, being respon-

sible for pooled investment products including unit trusts and life assurance policies. In many respects these have already been onlie effectively supervised by the Department of Trade. But there is now concern that the marketing of such investments needs to be more closely controlled.

Abolition of tax rellef on life assurance has made such petitive with unit trust invest-ment, and there is controversy over the way that unit trust selling commissions are being driven np as a consequence. Elsewhere, Government wishes to

courage more people to take np personal pensions con-tracts—but it is also discussing ways of controlling the high pressure selling tech-niques which are a feature of

It is intended that the names of the chairmen of the two new bodies will be announced shortly after the White Paper is published. Two organising committees are being formed to plan the creetion of the two bodies in more detail, Before long, lists of directors of the two agencies can be expected to

The plan is that key functions of the larger agency will be in place comparatively soon -before the end of 1985, at any rate. To some extent it

Choulentous**

First Nat. Fin. Corp.... 11 %

First Nat. Secs. Ltd.... 11 %

Robert Fleming & Co. 94%

Robert Fraser & Ptns. 10 %

Grindlays Bank \$ 91%

■ Guinness Mahon 91%

Hambros Bank 91%

Heritable & Gen. Trust 91%

will be taking over responsi-bility for existing agencies, notably the City Takeover But a much

apparatus will need to be in place by the time the major changes in the structure of the Stock Exchange take place, which on present plans will bappen some time in the

If all goes well, this Stock Exchange "Big Bang" will coincide with the enactment of new investor protection legislation. But it is recogthe Queen's Assent might not be received until the beginning of 1987. Nevertheless, the key functions of the main watchdog body will be required to be np and running hy the date of the Big Bang.

Music-makers

in the scales

Whether andante or allegro. nobody is saying—but the move-ment of the unprofitable require state industry boards to musical instruments division of CBS, the U.S. broadcasting group, is now under way.

Bids are being made for some famous musical names in CBS ownership: Steinway pianos, Fender guitars, Lyon and Healy Gemeinhardt flutes and Rogers drums among them. Though the collection as a whole as been deemed out of

tune with CBS'a main-line activities-and losing, according to analysts, perbaps \$2m to \$4m a year since 1982—some of the individual instrument makers are atill performing

Steinway, the formerly German - owned piano - maker which CBS acquired in 1972, and Gemeinhardt flutea are profitable. So are Lyon and Healy barps. President Thomas O'Donnell says there is no fear about the future of that com-pany, which CBS picked up io pany, which CBS pick 1977 for around \$3m.

"We were here before CBS," he says, "and we'll be here after CBS. The barp market is Still made largely by hand in a four-storey, red and brown brick factory on Chicago's age-

ing West Side, the harps which Lyon and Healy claim to be the workhorses of the world's major orchestras cost between \$13,500 and \$18,000. Overseas sales bave been hit

by the rising dollar exchange rate—but those strings seem to have withstood the strains rather better than Fender rather better than Fender guitars, despite their seal of approval from rock atars like Jimi Hendrix, Buddy Holly, Hank Williams and Eric Clapton. Fender, started by a radio

repair man in a garage work-shop in the 1930s, was bought in 1965 by CBS for \$13m. Then, it reckoned started some 7.5m American kids strumming, and supply could not keep up with demand.

Men and Matters

seen as a better investment executive director of the Fund than the New York Yankees between 1977 and 1980, reprewhich CBS bought about the

But though 20 years later, there are certainly a lot more youngsters picking out ever more dissonant chords, e growing oumber of their guitars are stamped: "Made in Japan."

Going dutch

Onno Ruding, the Dutch finance minister, who takes over as chairman of the IMF's policymaking interim committee, bas past two years as architect of on the Dutch ecocomy. The 45-year-old former

banker, an earnest and slightly solemn man, bas been the major force behind Rund Lubbers' centre - right Government's policies of shrinking the national budget deficit, cutting public spending and lightening ths tax hurden.

He moves into the IMF post with a remit to play a broader role in tha Third World debt crisis. At the annual meeting of the Fund last year, the interim committee was charged with the task of taking a longer term look at the debt issue—a decision which was seen as a concession to the debtor countries who bave been calling for a broader-based debate. Ruding will be in Washington next weekeod for talks with the IMF managing director, Jacques

de Larosiere, World Bank president Tom Clausen, and U.S. Treasury Secretary, Donald

Tha interim committee meets again in Aprit, when Ruding again in Aprit, when Ruding hopes for agreement on his proposal to increase members' quotas by 4bn SDRs a year. He offered his plan to increase IMF liquidity after members falled last year to agree on a new SDR allocation.

Ruding is no newcomer to the Renals, deputy secretary in charge of the Department's The company formed the Ruding is no newcomer to the in charge of the Department's basis of CBS's instruments IMF or to the problems of establishments—the section that

division and, quite rightly, was developing nations. He was an lands but also Yugoslavia.



"I'd like to go somewhere the editor of Hollday Which?

Job rating

Patrick Jenkin and the Department of the Environment have not, to put it mildly, been among the political hits of the past year—which accounts for the serious thought now being given at the DoE to the question of which civil servant should be entrusted with the in-creasingly sensitive task of looking after finance and local

government.

Terry Helser, the man currently in charge, becomes the Department's permanent secre Government's permanent secre-tary next month. And with the Government's plans for rate-capping and reform coming to the boil, the key choice of his successor is exercising many

is supposed to manage the rest of the organisation. He is ex-perienced in local government, having made his name—in civil service terms — with difficult legislation following the Clay

Cross affair.
Geoffrey Chipperfield, another deputy secretary who is cur-rently number two at the Property Services Agency. Generally agreed to be "brilliaot," be was once leading Heiser in the promotion stakes. With bopes of becoming bead of the PSA, he might not welcome

a shift sideways now
David Pickup, the senior
under-secretary at present in
charge of implementing the
abolition of the GLC and the metropolitan counties. He bas been a regional director and bas considerable experience on the housing front. A good allrounder. currently

Heiser's deputy, and the man with the most up to-date knowledge of the issues. But he was in 1980, and it would be unusual if he were to take another step up so quickly. Heiser, himself, will have an

influential voice in the appoint-ment. He has gained quite a reputation for spotting talent-and promoting it.

Number one

The Indian Finance Ministry's first integrated computer system was inaugurated at the weekend — part of a £66m project for the widespread use of computers with which Prime Minister Rajiv Gandhi is backing his plans for governmental reforms Gandhi's enthusiasm for the electronics is still in its infancy. has already been recognised with the unofficial, but bonorific, title of Computeril

On the threshold

Overbeard at a Whitehall party: "If Nigel Lawson doesn't watch it, be's going to do the impossible and make tax cuts unpopular.'

Observer

BASE LENDING RATES A.B.N. Bank 91% Hill Samuel 91% C. Hoare & Co. 91% Allied Irish Bank 91% Honk Kong & Shanghai 91% Amro Bank 91% Henry Ansbacher 91% Johnson Matthey Bkrs. 91% Armco Trust Ltd. 101% Knowsley & Co. Ltd. ... 101% Lloyds Bank 91% Associates Cap. Corp.... 91% Mallinball Limited 10 % Banco ds Bilbao 91% Edward Manson & Co. 101% Bank Hapoalim 91% Meghraj and Sons Ltd. 91% BCCI 9½% Midland Bank 91% Bank of Ireland 91% ■ Morgan Grenfell 91% Bank of Cyprus 91% Mount Credit Corp. Ltd. 91% Bank of India 91% National Bk. of Kuwait 91% Bank of Scotland 91% National Girobank ... 91% Banque Belge Ltd...... 91% Netional Westminster 91% Barclays Bank 91% Norwich Gen. Tst. 91% Beneficial Trust Ltd... 101% People's Tst. & Sv. Ltd. 101% Brit, Bank of Mid. East 91% Provincial Trust Ltd 11 % Brown Shipley 91% R. Raphael & Sons..... 91% CL Bank Nederland ... 91% P S. Refson 91% Canada Perm'nt Trust 01% Roxborghe Guarantee 10 % Cayzer Ltd. 91% Royal Bk. of Scotland 91% Cedar Holdings 11 % Royal Trust Co. Canada 91% ■ Charterhouse Japhet... 91% J Henry Schroder Wagg 91% Standard Chartered ... | 91% Citibank NA 91% Trade Dev. Bank 91% Citibank Savings \$103% TCB 9½% Clydesdale Bank 91% Trustee Savings Bank 91% C. E. Coates & Co. Ltd. 101% United Bank of Kuwait 91% Comm. Bk. N East ... 91% United Mizrahi Bank... 91% Consolidated Credits... 93% Westpac Banking Corp. 91% Coroperative Bank 91% Whiteaway Laidlaw ... 19 % The Cyprus Popular Bk 91% Williams & Glyn'a 91% Dunbar & Co. Ltd: ... 91% Wintrust Secs. Ltd. ... 91% Duncan Lawrie 91% Yorkshire Bank 91% E. T. Trust 10 % Members of the Accepting Houses Committee. Exeter Trust Ltd. 10 %

7-day deposits 8.25%, I tsouth

7.00%. Fixed rate 12 months £2,500

2.75% £10.000, 12 months 2.00%.

£10,000 6%. £10,000 up tg £50,000

Call deposits £1,000 and over 64%.

\$ 21-day deposits over £1,000 74%.

74%, 250,00 and over 2%.

Mortgage base rate,

-- See Provincial Trust Ltd

فكذاصر الأصل

By David Buchan and Stewart Fleming in Washington

MR GEORGE SHULTZ, U.S. today. They help to explain Secretary of State, and Prest why he has been cautioning dent Ronald Reagan's top against the anticipation of early today in Geneva one of the two key presidential policy infitiatives which promise to influence they hopes which are being the course of the President's second term of office and narkans determine his place in Desnite tha risks, both inside

which is in danger of falling on stony ground: the White by Mr Lionei Ohmer, Under-House plan for tackling the federal budget deficit.

The second, which Mr Shultz will lay before: Mr Andrei Gromyko, the Soviet Foreign Minister, in what President Reagan hopes will be a series of meetings with Soviet officials. of meetings with Soviet officials, as Mr Olmer for assurances as a radical new approach to of sencitly of contract to back arms control negotiations. And up their badly needed capital the White House has made no secret of just how radical.

The President is seeking to far only been given in relation is a radical new approach to arms control negotiations. And the White House has made no secret of just how radical.

The President is seeking to engage Moscow in the most wide-ranging arms talks since the early 1970s, which will encompass both offensive nuclear missiles and defensive systems designed to thwart a nuclear atrike. Indeed, the President

The most wide-ranging arms talks since the early 1970s

defensive weapons to the negotiating table and part of the argument at is making to back up this decision, namely that in motion events which he believes could lead to the eradication of the muclear threat. His many critics dismiss this view of his so-called "Star Wars" Strategic Defence Initiative (SDI) as atarry-eyed.

Behind the claims being made by the White House lies a recog-Behind the claims being made by the White House lies a recog-nition that the President is embarking on a route which will present as many risks as opportunities. If the arms con-trol talks collapse early amid bitter recriminations, that bitter recriminations, that failure would severely weaken Mr Reagan's Administration well before the expiry of tha President's second and, by law, last term of office: Failure is also likely to bet my new strains within the Western alliance and, many fear, set the stage for a new arms face.

perhaps determine his place in
history.

Leaks to the press have
already exposed the outlines of
the first of these initiatives, one and not just in Geneva. Quietly, to U.S. grain exports.

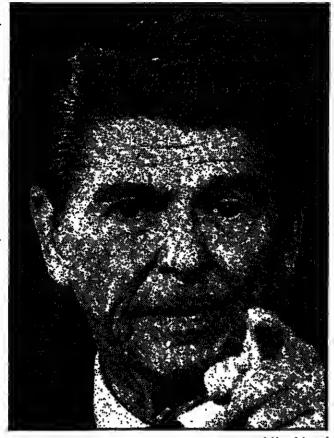
Administration officials con-

cede that private contacts in recent months have encouraged them to believe that the arms talks make sense. But privately they admit to being worried that they may be being lared into a forum which will degenerate again into a sterile propaganda war.

It is incistence on bringing

U.S. insistence on bringing defensive weapons to the nego-

Wars" programme is not limited to the U.S. and the Soviet Union. Some of Mr Reagan's Western allies harbour profound reservations about space-based defensive weapons. They fear that their development will set off a new and infinitely more costly and destabilising spiral in the arms race; they worry that such weapons will undermine the President's second and, by law, last term of office. Failure is also likely to bet up new deterrence which strains within the Western alliance and, many fear, set tha stage for a new arms race. These are reasons enough for the evident caution with which fear that SDI will become a the President is approaching the first round of talks about arms round talks, which open which could help to arms round talks, which open which could help to arms round talks, which open which could help to arms round at the programme which could help to arms round at the pro



President Reagan: cautioned against hopes of rapid progress

Europe's bead and "de-couple " the alliance from tha U.S. Administration officials are arguing that defensive weapons are already an arms control problem of the 1980s and that the Soviet Union has been spending more beavily on them than the U.S. One of the major incentives for the U.S. and the arms talks is the opportunity which now seems to exist to halt further offensive nucleit weapons deployment and—a major U.S. goal — reduce the numbers of nuclear weapons. For its part, the Soviet Union

develop a "family" of defensiva weapons as a bargaining threat. Indeed, Administration officials are having to deny vigorously that the "Star Wars" proposal is a bargaining chip, and to insist that they rule out a deal which would limit their research programme. The importance of this stance was emphasised by the visit to Washington by Mrs Margaret Thatcher just before Christmas and ber public endorsement of SDI-related research,

SDI-related research,
U.S. officials say that they are determined to be "flexible" in discussing the possibla alternative methods for conducting talks, although they have made public their preference for two sets of negotiations: one on defensive, one on offensive weepons, with the offensive talks maintaining the distinction between intermediate and longertween intermediate and longer-range missiles. They also want some form of "umbrella" struc-

ture to link the various discus- President from the remarks.

But ontside the Administration there are widespread doubts about whether its new arms control initiative will be any more fruitful than the talks which ultimately failed in the first Reagan Administration. Apart from the suspicion of Soviet motives and Intentions, one reason for these doubts is the rift, especially between the State Department and the Defence Department over whether arms control talks are in the U.S. interest. These divisions were a major factor

Since then, Mr Sbultz, who is now less involved with the Middle East and more firmly in tha saddle within the Administration than at any time since he took over from Mr Alexander he took over from Mr Alexander
Haig in 1982, has been able to
play a bigger role in formulating arms control policy.
Indeed, his growing strength
within the White House as an
advocate of pragmatic and
moderate views has infuriated
right-wing supporters of President Resean who have been dant Reagan, who have been weakened by the departure last week of Mr William Clark, by the imminent shift to the Justice Department of Mr Edwin Meese and by their inability so far to propet Ms Jeane Kirkpatrick, the UN Ambassador, into a new top level White House foreign policy post.

Mr Schultz's comfortable working relationship with Mr Robert MacFarlane, the Presiof Mr Paul Nitze as his adviser for the arms talks was seen as another hlow for the ideological opponents of arms control. Having sald this, however, the

fact remains that the enemies of arms control negotiations remain a force to be recokned with, Mr Richard Perle, the Assistant Secretary of Defence

It is clear, however, that arms control opponents within the

Administration are simply biding their time until they have some real targets to shoot et, assuming that is, that over the next 12 months today's meeting does indeed lead on to serious negotiations.
Partly because of the divisions

within the Administration, it is accepted that the success or failura of the arms talks will hinge crucially on the attitude and, importantly, the active involvement of President Reagan.

The Presideot is now saying that he will back the talks "seriously and zealously," a position which contrasts with his past opposition to srms agreements. One widely held view of his commitment is that he, and particularly his wife. behind the collapse of talks in he, and particularly his wife, Nancy, have an eye on the President's position in history and want to see him go down as a peace President.

Many arms control experts

are arguing that, partly because of the divisions within the Administration, presidential parti-cipation will be needed to keep any talks moving, and presiden-tial participation at a much deeper level than Mr Reagan

Opponents are simply biding their time until they have some targets

customarily gives to policy Having pushed this far ahead dent's national security adviser, in pursuit of arms control talks, has also helped to strengthen his it would be a serious blow to position, and the appointment presidential prestige for the it. suddenly to collapse, and it would damsge the political momentum which he has drawn from his sweeping election vic-

tory in November.
Mr Reagan is already in one sense a "lame duck" President because, by law, he cannot be re-elected. But there is a distinction to be made between who is seen to have more in-finence on U.S. policy towards tha Soviet Union than any other Administration official in the of the American political scene being nominally a lame duck Administration official in the past four years, has sent a forceful reminder of this. In a lengthy interview in the Washington Post last week, Mr Perle ruthless'v spelt out bls control in a statement which subsequently drew an explicit statement from a senior Administration official dissociating the of the American political scene argue that it could be two years before the lame duck tag begins. There is then an increase in employment but of a modest kind. One reason for the modesty is supposed to drag down made on reducing the budget is supposed to drag down nominal demand by at least 2 to 3 per cent. In the second column accordingly, action is

Lombard

How to boost the pay-jobs link

By Samuel Brittan

TOWARDS THE end of 1984 we taken, not to "boost nominal bad a spate of reports claiming that various forecasting models supported, refuted or -- most often — gave only weak support to the link between real pay and jobs.

Most large-scale models are not designed to test or measure the pay-joh relation. They were primarily designed for short-term forecasting in which demand effects tand to predominate.

Many of what purport to he real wage effects are the in-direct effect of nominal wage changes on other variables such as international competitiveness or government spending in a cash planning system

Nevertheless the EEC Commission has made a valiant attempt to conscript four forecasting models used in the Eurolink system to exhibit aspects of the pay-jobs link (Annual Economic Review, 1981-85). To obtain worthwhile results a new version of the UK model had to be inserted, as in the main version there is (as in the Treasury model) zero sensitivity of employment to real pay changes. The results are worth exhibit-

ing mainly because they illustrate the Interaction between demand management policy and the real wage fsctor, which some people find so

The Commission carried out several alternative simulations. It assumed that nominal wages were by some stroke of luck or policy (called a "shock") beld 5 per cent below the level envisaged in its base forecasts for the next four years. In the table the effect at the end of four years is shown, but the most important effects are already in evidence after three years and quite a lot appears after two.

In all the simulations real wages are also restrained, although not as much as money wages. In the first column of the table it is assumed that there is no other policy action

demand" in the conventional sense, but to prevent it from falling below the path pre-viously projected. In a third simulation (not shown) it is assumed that this demand sup-port is undertaken by West Germany, France, the UK and Italy together, thus reducing the budgetary and balance of

psyments cost. nominal demand is to double or trehle the employment effect. For the EEC average a 5 per cent "cut" in nominal wages is then associated with a 3 per cent cut in real wages and a 3

per cent gain in employment.
The average EEC job effect
is at the upper end of the range
suggested by the British Chencellor, suggesting a real jobs
elasticity of one if nominal
demand is maintained. This is probshly more reliable than the estimate for any one country. The main use of these simuletions is simply to illustrate that both real wage restraint and demand management are mutually supportive aspects of employment policy: provided that demand management is carried out in nominal terms, which avoids inflationary risk.

The Britisb Chancellor would say that his own Medium Term Financial Strategy (which the simulations do not attempt to reproduce) will itself maintain nominal demand. This may be true, depending on exactly how the strategy is interpreted. Why not remove the room for doubt, by spelling out the intention directly and not merely by the mumbo jumbo of frequently altered monetary targets?

NOMINAL W	AGES 5	PER CENT ECTION
% effect	(1)	(2) Nominat
after four	Isolated	GDP
years	action	maintained
consumer		
prices.	-2.3	20
UK prices	-3.5	~21
EEC average		_,
real wages	-2.6	-3.1
UK real wages EEC average	-7.5	-2.9
employment	+1.3	+3.5
employment	+1.9	+6.3
EEC average current		
balance	-0.2	-1.0
UK balance	0.0	-0.7

Source: EEC

Golden goose

dead

BANG'

remains the second

After the party

4 4 4 6 6

MATES

From Mr J. Woodthorpe Sir,—The TUC, and Mr Gregory (December 24), are right in thinking that cuts in real wages won't make much impact on unemployment, but, as usual, for the wrong reason. Clearly the TUC is deliberately missing the point on unit costs when aroning that much higher when arguing that much higher European wage levels give European wage levels give plenty of room for real increases rather than reductions. Helpful though reductions might be in improving our grossly high (in the light of our low productivity/low wage levels) unit costs, the simple fact is that hardly any major UK employer is planning to increase signifi-

is planning to increase signifi-cantly the number of his employees in this country. After nearly 40 post-war years of virtually unceasing concentration on joh protection and resistance to productivity improvements the unions have finally killed their goldan goose. With the persistant and persisting unneeded reminder of archaic NUM leadership attitudes in the background, coupled with the knowledge that the pay of their present employees increased by 7.5 percent on average in the last year, is it really surprising that many industrial leaders rather than increase their dependence on their UK operations, seek to reduce it, and instead look oversees to acquisitions and new After nearly 40 post-war years seas to acquisitions and new ventures for profit growth. Nor in repurchasing their equity to use up talle funds are they unimaginative: on the contrary, in redistributing their equity when faced with over-expensive acquired to the contrary. sitions abroad, or the probability
of unremitting industrial relations trench warfare at home,
they are simply realists.
The one overriding reality
that the TUC has yet to appre-

ciate is that its historically negative objectives and attitudes are more than ever inappro-priate today to its members needs. The best hope of secur-ing employment for the membership, let alone gaining real wage snip, set alone gaining real wage increases, lies in positive and lasting co-operation with management to improve productivity, raise quality standards and lower unit costs. Some smaller, further-eighted unions have already learned this lesson from their competitors abroad, but until the bigger, more myopic ones do the same, there is little hope of new employment for the majority of their unemployed members. John Woodthorpe. 54 Egion Place, SWI.

Spend, spend and borrow

From Malise Graham Sir,—Mr Phaure (December 29) may be reastured to know

Letters to the Editor

that across the Atlantic the abnormally high cereal import citizenry ere doing just what requirements in 1984-85 FAO currently estimates food aid re-

titizenry ere doing just what he suggested. In the first half of 1984 consumer credit ontstanding in the U.S. rose at the record annual rate of \$104bm. This is treble the first half 1983 rate and double the previous record rate which caused the economy to peak in the foorth quarter of 1978.

It increases total consumer credit outstanding by 20 per cent and adds \$2,000 or 15 per cent to median family income. It is equivalent to approximately a 50 per cent increase in the income of the threshold taxpayer in this country where the "splurge" in consumer credit outstanding in the first half of 1984 was £500m.

Concurrently family mortgage deby also increased at record

Concurrently family mortgage debt also increased at record rates. It rose \$156bn in the period—80 per cent above the 1983 rate and 20 per cent above the previous 1979 record.

All this was undertaken without any encouragement from the Government. Understandably so since it raises the question "Who is crowding out whom?"

Total U.S. debt increased over

whom?"
Total U.S. debt increased over
the period at an annual rate of
\$812bn and is estimated to
approximate \$8 trillion (million
million) at year end 1984. Of
this Federal debt is estimated
to approximate \$1.6 trillion and
comparate \$2.1 trillion.

to specialize \$2.1 trillion.

To get the answer to the question requires buying a return ticket of course on credit.

You min't seen nuttin' yet!

Malise L. Graham,

M. Morrie Road. 40, Morris Road, Lewes, Sussex.

Food aid shipments

From the Chief, Food Security and Information Service, Commodities and Trade Division, Food and Agriculture Organisation of the United

Sir,—In the article "The life-blood drains away," by Patti Waldmeir, (November 21) cor-rectly cites an FAO estimate of the African Continent however is incorrect. The figure of 9.6m tons of cereals, which is cited for 1984-85.

For 21 African countries with such

quirements at around 5.2m tons, of which 3.7m have thus far been covered by pledges. The latest available information indicates that total cereal food ald shipments to the world as a whole are now likely to exceed 10m tons for tha first time since the World Food Conference established this as a desirable target over a decade ago.

Barbara Huddleston. Vio delle Terme di Caracalla, 00100 Rome

Applause at

From Mr M. Vorcoe-Cocks.

Sir,-Mr Shovelton (December 27) describes opera house applause efter an aria or in the middle of an act as "disturbing interruptions" and is gled this Continental habit " has virtually died out at Covent Garden.
I too would prefer to hear each
act of an opera undisturbed,
but I have accepted that going to the opera is a shared audience experience and that when some thing is particularly good or exciting the audience will release its tension by applause without waiting for the end of the act or, sometimes, the end of the aria, Mr Shovelton would be act or applause like these treat such applause like those who dare to appland after a movement of a symphony who are "rightly frowned upon and silenced." This silencing usually takes the form of competing hissing and "shushing" which

is even worse.

This sort of applause is usually confined to Italian 19thcentury opera by composers who knew perfectly well that the dramatic flow would be thus interrupted and who in many cases would bave been very disappointed et any other reaction at the bed composition of the composition of as they bad constructed the aria with that express purpose in mind, especially in such arias as the Brindisl In "La Traviata" and, the most famous aria of all,
"La Donna è Mobile" from
"Rigoletto."

as the amount of food aid reection would have met with needed in Africa, actually refers to anticipated food ald shipments to the world as a whole ments to the world as a whole would have been delighted that the audience had been moved to the audlence bad beeo moved to Porthtowan, such an unconventional Truro, Cornwall.

listen to opera at home un-disturbed on record/cassette/ compact disc, but nothing beats being with and part of an andience and if it responds to excellence with a demonstration of spproval so much the better.
What I find much more annoying (because the remedy is so simple) is the continued habit of most houses, Continued and Covent Garden, of bringing down the curtain hefore the music has finished so that the final hars are almost invariably drowned by the Pavlovian appleuse induced by the first twitch of the curtain. Michael D. Varcoe-Cocks, 3, Onslow Court, Drayton Gardens, SW10.

I (and Mr Shoveiton) can

Generating

From Mr J. de Rivaz
Sir,—I refer to Mr Prowse's
article "A startling but simple
ides for Mr Lawson (December
21) about the tightening of
capital taxes to reduce higher
rate income tax. This would
effectively mean that the country would be living off its
capital rather than off its income. Eventually the capital come. Eventually the capital bases would be destroyed, and the income would presumally cease. Such a system may favour highly paid professionals initially, hecause they require no capital of their own and they create no real wealth. But eventually as the capital base is eroded, they would have fewer and fewer clients to live

Abolisb capital gains and transfer tax. Tax the whole amount of any capital amount of any capital realisation as income. Make every investment tax deduct-able. Investments could be Investments could be defined so as to channel capital into wealth producing sectors, eg manufacturing, instead of areas such as antiques or works of art, where the sole aim is speculetion.

Professionals in the capital

transfer tax evoidance industry would loose their jobs, but for professional advisors to help clients move their portfolios more actively to maximise the profit. In a market economy, this would mean that capital is always moved to where it generates the most wealth

Admittedly it would be possible for people to inherit wealth. If they were to spend rectly cites an FAO estimate or coarse grains production in Africa as 46.1m tons this year compared to 54.6m tons in 1982. The reference to the latest food aid requirements estimates for by Eva Marton's thrilling share certificates are on the latest food as a second continent however by Eva Marton's thrilling share certificates as long as funds are not taken out of coarse grains production in Wagner operas are considered in nowever, at income rates. Therefore they would be encouraged to save it. Surely it does not matter whose names are on share certificates as long as funds are not taken out of outburst of vengeance. My first wealth creating sectors of indus-rection would have met with try to be wasted on consumahles or services? John de Rivaz.

STOP AT NOTHING

MONDAY'S MEETINGS

8:30 a.m. Cornwall Communications Ltd - directors' plans for USM listing (take our new USM video).

10:30 a.m. Office - presentation on P.W./Reuters Treasury Management Workshop (Speak to Graham Davis, Brown International, re February course).

12:00 a.m. Review progress on George Brightwell Engineering audit.

12:45 p.m. Lunch - Chamber of Commerce - Fothergill re Freeport seminar.

2:30 p.m. Industry Specialists meeting - Building Society developments, 1985.

4.00 p.m. Hilary Longton - staff appraisal/counselling.

5.00 p.m. To Lane Industries - present results of VAT study.

7:30 p.m. Office - pick up 2nd draft of Windsor Chemicals annual report (Board meeting tomorrow).

9p.m. Nothing.



FINANCIAL TIMES

Monday January 7 1985



Terry Byland on Wall Street

High rate returns from 'junk'

THE STATISTICS on underwriting of public securities offerings in New York for 1984 bave confirmed the growth and significance for Wall Street of the appeate for high-yield bonds, or "junk boods" as they are known on the trading desks.

Drevel Burnham Lambert's place ss oumher two to Salomon Bros in the underwriting list owed much to its domination of the junk bond market, which it can claim to have created single-bandedly. It is hardly surprising that other Wall Street firms have been drawn towards this lucrative area of husiness. Morgan Stanley began a determined foray into junk bonds in mid-October, and any number of other firms are anxious for a share of the action.

The bonds in questioo are those which are rated below investment grade by the major rating agencies
– BBB at Standard & Poor's and BB at Moody's...

The two agencies rate all new corporate bond issues, so there is little room for doubt where new issues are involved. Many seasoned issues of corporations, however originally on a higher rating, have slipped down the grade - some-times this is because of individual misfortunes and sometimes because of changes in the U.S. indus-

The deht structure of Pan American and many other once-impreg-nable airlines has been shaken by shifting fuel costs and deregulation

HIGH-YIELD	BON	DS ISSUED
1981		\$2.5bn
1982		\$4.0bn
1983		\$7.1bn
1984		\$9.5bn
Source: Morgan Sta	niey	

of the U.S. route structure. Energy companies have undergone similar problems as oil prices have fallen, while the utilibes have been pilloried for the debts undertaken in ou clear plant constructioo.

The attractions for the underwriters of oew issues of high-yield bonds are plain enough. Ostensibly because of the greater difficulty in placing such low-grade bonds, underwriting fees are often double those of investment-grade issues, reaching around 2 per cent.

The list of clients williog, or even delighted, to invest in the bonds has delighted, to invest in the bonds has spread well heyond the convention- lar comeback" with a range of new to build 4m units of its new prod- six months.

ATARI aims to make a "billion dol- games this year, and is gearing up puter will not be available for about range from \$400 to \$600, compared to build 4m units of its new prod- six months. al risk-taker, to include most forms of investment institution. Insurance companies were among the early investors, but the mutual funds are oow hig players. Pensioo funds. which are discouraged by their own covenants from high-risk investments tend to hold their commitments to junk honds between 5 and 10 per cent.

The attractions are the substantial yield advaotages offered by low-grade bonds. Figures compiled by Mr Martin Fridsoo at Morgan Stanley show that airline low-graders have returned about 700 basis points above the 20-year Treasuries throughout last year. Yield on utilities exceeded Treasuries by about 500 hasis points and on eoergy com-panies by around 430 basis points.

Not all the recent new issues have come from solid, responsible corporations temporarily down on their luck. High-yield bonds proved an attractive means of fund raising for corporate executives and others seeking a leveraged buyout of parts of existing companies. Indeed, the absence of a deht history on the part of the new, usually privately owned, operating company result ing from the leveraged huyout rendered a low-rated, and therefore high-yielding funding almost ohli-gatory. When the victim of the buyout left public deht outstanding there was a requirement by the Securities and Exchange Commissio for a continuing filing of financial

Wall Streets latest predators however, including the "greenmailers," were also quick to avail themselves of the growing support for high-yield debt. The high potential return from either acquiring the victim company cheaply, or reaping a substantial profit by selling the share stake back to the corporate treasury, justified the high cost of

financin Drexel applied its expertise in junk bonds to finance such opera-lions as Mesa Petroleum's attempt

to buy Gulf, The only cloud on the borizon for junk bonds is the danger that the high risk involved will produce a crop of disasters when next the U.S. economy turns down. The hanks have long since cut hack on their lending to leveraged buyout hope-

fuls.

There are no reliable default rates on high-yield bonds, and in view of their brief history, it is doubtful if such would be of value for predicting the future. Some analysts claim that, at present returns, a high-yield portfolio could take a 32 per cent default rate and still come out on top. However, that could be just whistling in the wind if times turn hard.

Green light for Nestlé to take over Carnation

BY JOHN WICKS IN ZURICH

NESTLE, the Swiss-owned food multinational, has finally won approval from the Federal Trade Commission (FTC) of the U.S. to proceed with its \$2.9hn purchase of the Los Angeles-based Carnation company. The FTC approval was, surpri-

singly, made without any condi-tions or limitations. Previously it had been thought possible that Nestle might have been obliged to dispose of parts of the expanded U.S. operations oo anti-trust grounds. With both the West German and

UK monopoly authorities also re-cently clearing the merger in so far as it affected operations in those countries, Nestlé now looks clear to proceed internationally with the takeover without the fear of having to dispose of subsidiaries in any

More than 90 per cent of Carnabion's shares have already been ten-dered to Nestle, which made a hid makes the deal one of the higgest non-oil transactions of its kind in U.S. corporate history and also the largest takeover ever carried out by a Swiss company.

The Carnabon hid has had to be prolonged several times since Sep-tember due to the time needed by the FTC to examine the proposal in the light of the anti-trust laws. The latest extension had been until Jan-

Last July, Nestlė was obliged to withdraw from a \$500m hid for eyecare group Coopervision, of Palo Al-to, after the FTC had ruled that the foreseen merger with Nestle's Fort Worth-based subsidiary Alcon Laboratories would lead to a limitation of competition in various sectors of ophthalmological medicine and contact-lens care products.

The takeover of Carnabion, which

of \$83 per share in September. This is active mainly in dairy and cultnary products, petfood and food services, will add a substantial annual sum to Nestle group turnover. In 1983, Carnation had shown sales of \$3.4bn, of which 27 per cent were obtained outside the U.S. Carnatico employs 22,000 people in more than 100 production centres in 18 coun-

> Nestle itself, which is also an important international producer in many of Carnation's operational sectors, showed 1983 consolidated turnover of over SwFr 29.94ha (\$10.7bn). In the first 10 months of 1984 alone, sales were SwFr 25.4bn. or 11.4 per cent up on the corresponding figure for the previous

Turnover of Nestle in the U.S. in 1983 was \$2.5bn. This is expected to double following completion of the

UK group leads successful bid for Singapore metro contract

BY CHRIS SHERWELL, SOUTH-EAST ASIA CORRESPONDENT. IN SINGAPORE

the UK has won the prestigious contract to lay the track work on Singapore's Mass Rapid Transit metro system with a hid of S\$267m (U.S.S122m). The deal is the second largest of all the metro contracts in

Henry Boot is teamed with Gammon of Hong Kong, which is a 50-50 joint venture between Trafalgar House of the UK and Jardine Matheson of Hong Kong. Their Singa-pore partner is Singa, consisting of Singapore government-controlled companies

The main competition came from a French consortium led by Mootcocol and from Thyssen of West Ger-

cent

The final decision was made last Friday after several weeks of discussion between the MRT Corporation, which is running the SS5bn project, and the main contestants. The continuing weakness of ster-ling against the French franc is believed to have given the British consortium an extra advantage, al-though the team was also said to have had a superior technical proposal and its experience oo the Hong Kong mass transit system

most certainly helped. Financial advice to the consortium was provided by Schroders in many. Originally six hidders prequalified, and at the end the difference in price, which ultimately decurrencies and interest rates to ar-

A BRITISH Hong Kong consortium cides all metro contracts, was rive at the most competitive cash led by Henry Boot International of thought to be as narrow as 1 per offer.

UK contect on the deal is estimated at 40 per cent, and as a result the British Steel Corporation is expected to be a major beneficiary because of the steel orders.

The winning consortium must construct a total of 195km of track on routes stretching across the island state. The previous largest metro con-

tract secured by a British company was won by Westinghouse Brake and Signal, part of the Hawker Siddeley group, for the system's brakes and signals.

The largest metro contract on offer was for the rail cars and was won last year hy Kawasaki of Japan with a hid of S\$581m. Chinese show interest in Land

Rover venture, Page 3

BIS role proposed for Ecu clearing

By Peter Montagnon

CENTRAL BANK governors of sider draft oroposals for using the Basle-based Bank for International Settlements (BIS) as a clearing house for private commercial trans-actions denominated in European currency units (Ecus), the Commu

nity's own curreccy.

The proposals, which are designed to facilitate the use of the Ecu in private transactions, bave een drawn up hy a working group of 18 commercial hanks under the chairmanship of Credit Lyonnais. They call for the BIS to play a central role in clearing Ecu transactions through accounts beld at the bank hy a limited number of designated commercial banks.

Bankers say that a formalised clearing system for Ecu transactions is needed because of the rapdly growing use of the currency in hank transactions including the is-sue of bonds and certificates of deposit in the securities market.

Tomorrow's meeting of EEC ceotral bank governors only marks a preliminary examination of the proposals that would still have to be ratified by the full BIS board before the clearing system could be set up. EEC ceotral bank governors meet regularly as a separate group at the monthly central hankers' gathering in Basie

Bankers believe it would be late this year, at the earliest, before a clearing house scheme could be introduced. A number of technical problems remain to be ironed out and opposition to the scheme is possible from some central banks, not-ably West Germany's Bundesbank

Although the proposals do not call for the BIS to act as a lender of last resort of Ecus, it would have to hold Ecu accounts at EEC central banks into which any settlement surplus could be paid.

Euromarkets, Page 11

market of 1974 is still a vivid memory for many a pension fund trustee. Yet, to judge from data compiled at the London Business School, the actuarial assumption of 3 to 4 per cent real returns may be a mite too conservative even over the long term. Dr Elroy Dimson and Dr Paul Marsh have used the 30th anniver-sary of the LBS data base as an opportunity to examine long-term investment returns. Their cooclusion is that a fund invested in the LBS index - weighted by capitalisatioo would, after total dividend reinvestmeot, have shown annualised average returns of 14.6 per cent between 1955 and 1984. After allowing for

THE LEX COLUMN

London equities and the history book

The UK pension fund movement has enjoyed so many years of plenty in London equities that the term bear market has almost passed out of the industry's vocabulary. Over the past five years pension funds should have shown overage annual returns of almost 25 per cent from UK equities, miles ahead of inflation by any reckoning. So an investment manager would have needed bad luck as well as incompetence to show real returns below the 3 or 4 per cent demanded by the

The upshot is that many company pension funds are now sporting substantial actuarial surpluses, which even government legislation on deferred pensions and voluntary improvements to the terms of accrued benefits may not entirely absorb. So, for the first time in years, finance directors can consider boosting profits in the most painless way imaginable - via a straightforward reduction in pension contributions.

Contributions

A few companies - Rockware and James Neill Holdings among them have already managed to reduce their published losses by cutting back on cootributions or simply clawing back past paymeots. But these cases are exceptional, the surpluses arising as much from a shrinkage in the workforce as from the performance of the fund's managers. Companies have generally been discouraged from reducing the level of cootributions by the thought, to which any good Scottish actuary would subscribe, that paper profits can be blown away the minute the wind changes. The bear

Cumulative Fund Value SHARE MONDON LBS Index Long Gits

The accompanying chart provides graphic illustration of how the total return from equities outpaced both inflation and the returns on ly, it seems a little odd that equity long-dated gilts. £1,000 invested in investment has shown a return so the LBS index at the beginning of much higher than that which com-1955 would hy now be worth £59,840, while the same sum invested in Treasury hills would be worth under £10,000.

The LBS index is admittedly not a wholly reliable guide to past pen-sion fund performance. For one thing, it is extremely broadly based, incorporating roughly 2,000 securities. Since smaller companies have tended to outperform their larger brethren over past 30 years, the index has done better on average than more narrowly-based measures. But Dimson and Marsh reckon that £1,000 invested in the FT-Actuarial All-Share index, reconstructed to begin in 1955, would still have swollen to around £43,000. The LBS model makes no allow-

ance for tax oo investment income, and indeed the lion's share of the growth in capital value results from the compounding effect of reinvest-ed dividends. Without that support, most conspicuous in the high payout days of the late 1970s, the LBS index would scarcely have outperformed inflation over the 30 years. So past performance will not be much of a guide to future returns if the Chancellor of the Exchequer fulfils his apparent threat to slap an investment income tax on the pen-

sion funds in the next budget.

The Dimson-Marsh analysis in make interesting reading for all vites any number of possible conclusions. Even making a substantial allowance for the greater volatility of the equity market, the risk premuity market at least, have comfortium over gilts or Treasury bills ably been exceeded. The poor perreal return works out at 7.2 per series ending in 1974 inevitably investments would obviously proceot. An arithmetic series - taking looks rather dismal but the LBS duce a narrower gap for an aggrethe average of individual annual reteam found that the standard deviagrate portfolio but fund managers turns - produces an even higher tion of the index over the whole pereal return figure of 10.1 per cent. riod was only 19.1 per cent. This ing at a fairly easy target.

of every three the return from the index was within 19 percentage points either way of the long-term average return. The standard device tion of Treasury bills over the same period was 16-per cent.

But that greater volatility seems

a small price to pay for very much higher long-term returns. If the his-tory of the past 30 years is taken as n reasonable indicator of future behaviour, then the equity market must look rather cheap at its pres-ent level. On the other hand, sceptics could very well point to the 3 per cent yields on index-linked as the best guide to future investment performance and conclude that the equity market is riding for a monu mental fall which will bring aver age returns scuttling down. Certain ly, it seems a little odd that equity panies appear to have earned on

Dividends

Moreover, for past trends to be repeated companies will need to continue paying dividend increase: comfortably in excess of the rate of inflation. While that seems o reasonable expectation for this year and next, it is anybody's guess what 2000. And, as 1974 showed, one bad year can easily upset the cumula-tive return figures. Between 1955 and 1973, the LBS index was show ing average annualised returns of 11.2 per cent in nominal terms. Extending the series by another year brought the average figure crashing down to 6.8 per cent.

Fund managers are now operat ing in financial markets almost unrecognisable from those of 30 years ago. In 1955, equities were still yielding more than gilt-edged and a return on Treasury bills much above the rate of inflation was unheard of. So the 30-year series is perhaps distorted by relative returns early on which have now gone

The Dimson-Marsh findings that Taking the last 30 years as a whole actuaries have made real return assumptions which, in the eqlooks remarkably generous. Any formance of cash and fixed-interest would still seem to have been shoot-

Within 18 to 24 months Mr Tra-Atari's answer to Apple Computer's Macintosh. With the same micromiel plans to shift Atari's manufac-

Atari plans \$1bn assault on market

Britain set to review

policy on oil prices

BY LOUISE KEHOE IN SAN FRANCISCO

home computers introduced in the U.S. over the weekend. The former Warner Communications subsidiary, now owned hy Mr Jack Tramiel who founded Commodore International, unveiled two new product lines at the Consumer Electronics Show in Las Vegas.

"We have to work hard and save as much as we can, next year there'll be caviar," said Mr Tramiel, outlining his plan to revive Atari's fortunes. Atarl aims to sell 51hn worth of home computers and video

UK interest

crucial week

Continued from Page 1

rates were forced up by 2% percent

Then, as now, the market's anxie-

ties centred upon a combination of

falling spot market oil prices, weak

sterling and a general anxiety

The pressures now, however, de

not seem to he as acute. In its

monthly economic assessment yes

terday, stockbroker James Capel

said the weakness of the pound re

cently resulted from a strong dollar

The report said: 'As both these

factors are beyond the Govern

ment's control and the weakness o

the currency has little to do with do-

mestic economic policy, the authori-

ties should in our view pursue a pol

icy of benign neglect and move only

caubously oo the interest rat

The authorities are likely to put

strong emphasis on the fact that the

money supply figures are distorted

front."

and the outlook for oil prices.

rates face

age points in two stage

about the money supply.

Serving champagne and hot dogs

turing back from overseas plants in Hong Kong and Taiwan to a highly automated factory in Nevada, he announced. Atari once employed as many as 6,000 workers in California hut now has a workforce there of only about 200.

Atari's chief introduction - a high-performance home computer turned out to be a promise rather than a present. The company's widely rumoured 32-bit home com-

Continued from Page 1

particularly in the light of recent criticism from the House of Com-

mons Energy Committee about the

On the other hand Mr Peter

Walker, the Energy Secretary, has

been in contact with Sheikh Yama-

ni, the Saudi Oil Minister, during

the holiday period and wants to avoid the kind of confrontation with

Opec which Opec ministers have

said will lead to a price war and

which could have a devastating ef-

An editorial in the latest issue of

the hulletin of the Kuwait-based Or-

ganisation of Arab Petroleum Ex-

porting Countries warns today that

real possibility. It says a price war

would set the stage for a new energy crisis as the industrial countries

rould slacken their efforts to find

The likeliest course of UK Gov-

nment policy is to allow BNOC to

fect on the value of sterling.

alternative fuel to oil.

Government's handling of BNOC.

The new ST home computers are processor, matching memory capacity and microdisk drives, the Atari hardware has much in common with Apple's top selling computer.

Atari's biggest coup is, however, provided hy GEM, new operating software from Digital Research, which should give it many of the ease of use features popularised by Apple's Macintosh.

Retail prices for the ST line will

continue selling its oil for an indefinite period at spot-related prices

and to move as inconspicuously as

for setting the price it pays to sup-

If spot prices do harden this

week, however, ministers may be

inclined to delay a decision until af-

ter January 17, when Opec's key ministerial committee on price dif-

lowing the deadlock on differentials during the two full Opec ministerial

meetings in Geneva over Christ-

mas, there is still some hope in

Whitehall that a decision will be taken to readjust the differential

between heavy and light Opec

crude prices. This would have the effect of raising demand and there

fore probably spot prices for the lighter crudes which are found in

Although it seems unlikely fol-

ferentials is due to meet again.

with current discount prices of the the effects of inflation, the average Apple Macintosh of around \$1,650. real return works out at 7.2 per The ST is not, however, scheduled to reach the stores until the second quarter of 1985. Currently, there is no software available for the new machines, a big drawback which Atari is trying to rectify.

The new Atari XE family of eightbit home computers is an update of the Atari 800 XL. The new version will sell in the U.S. for \$200 to \$400 depending on the model and memo-ry capacity. The XE provides "the power without the price," said Mr

'star wars'

Continued from Page 1

that the Soviet Unioo has itself upset the strategic balance with the possible towards a similar system

> arrived in Geneva for the talks. They include, apart from Mr Shultz,

Shadow of wrangle

U.S. by the superior position it had built up in long-range, land-hased missiles. It had also tried to gain a further advantage by pursuing advanced research into strategic deence systems as well as maintaining "the world's only operational Anti-Ballistic Missile (ABM) systems" around Moscow More than 50 U.S. officials have

Mr McFarlane, Mr Paul Nitze, the Secretary of State's special arms control adviser, Mr Richard Perle. Assistant Secretary of Defence, and Mr Richard Burt, Assistant Se tary of State for European Affairs. Mr Shultz and Mr Gromyko plan to meet at least three times during their two-day stay in Geneva, alternately at the U.S. and Soviet

Euro-clear®

securities transactions settled during 1984 have exceeded

this compares with \$613 billion during 1983

The Euro-clear System is operated under contract by Morgan Guaranty Trust Company of New York

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December 31 1984

World Weather

Gold below \$300 in NY

THE SPOT PRICE of gold fell be-low \$300 an ounce in New York on Friday for the first time since June

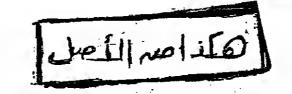
The price of gold, which peaked around the \$800 level early in 1980, was quoted at \$298.75 an ounce. down \$3.25 on the day and \$9.50 an

ounce on the week. Trading was de-scribed as moderately beavy. The recent sharp decline in the price of gold is attributed by U.S. dealers to the strength of the dollar, a growing belief that inflation bas been beaten, the declining prices of other commodities, particularly oil, and higher levels of worldwide sup-

In U.S. credit markets, bond prices, which had see-sawed throughout Friday's trading session, ended lower after a larger than expected \$8.7bn jump in M1, the hasic U.S. money supply mea-sure, in the week ending December

In spite of the M1 jump, however the Treasury long bond closed well above its worst levels of the day, down % at 1001%. In the money markets short-term rates mostly unchanged while the federal funds (or overnight interbank) rate dropped back to 8% per ceot.

U.S. credit markets, Page 12;



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SECTION II – COMPANIES AND MARKETS **FINANCIAL TIMES**

Monday January 7 1985

KIVETON PARK STEEL

11

BRIGHT FREE MACHINING STEEL FUR FORGING, UPSETTING & EXTRUSION FROM KIVETON PARK

Rounds, hexagons, flats, carbon and alloy steels. Coated coils for cold forging and All in a wide range of finishes, Sizes

Upset likely on multi-year reschedulings Yankee bonds end year

who have been hoping ever since In fact, these creditors' determilast year's London economic sumnation to stick to a one-year promit to see industrial country source.

Like the government reschedution of their agreement a formal committee to see industrial country source.

Like the government reschedution of their agreement a formal committee to seek a committee t rangents are up to their promise of ple question of governments refusing to use more than an absolute oping world.

One year's duration only, which means that the hanks, in committing to use more than an absolute minimum of taypavers' more in the developing world. oping world dealing with the debt crisis. Some Yugozlavia's leading commercial European governments were will of this, they are likely to seek cerbank creditors tomorrow begin a fing to consider a multi-year packnal round of talks in London that is age, but strong objections came some of which could set new precedents for hank rescheduling pack-Yugoslavia's leading commercial

expected to lead to agreement on terms for rescheduling some \$3.4bn in debt falling due between now and the end of 1988. They will do so, from the U.S. The U.S. is worried about setting ages. a precedent in Yugoslavia that larger debtors in Latin America might however, against the background of seek to follow. Tying up a multi-a refusal by creditor governments year government deal for Yugoslav-to do any more than reachedule offi-ia might, the U.S. argues, limit its cial loans falling due in 1985 alone. freedom of negotiation with Brazil Yugoslavia's deal thus seems like in particular, and it is to those talks or economic developments, and it ly to confirm the pattern set since later in the year that bankers are reflects a precedent already estabthe London summit whereby banks now looking for a test case of gov-move ahead with multi-year packmove ahead with multi-year pack-ages while governments hold back.

Yugoslavia had been regarded as a packages.

Yugoslavia had been regarded as a packages.

Meanwhile, Yugoslavia's creditor their banks into multi-year rescheduling August. cause of the traditionally close co- banks have had to abandon their their treatment of the borrower's original hope of securing a deal that continuing relationship with the ernments in dealing with its prob- would be matched in scope by government creditors. They have, how- IMF monitoring of its economy ever, successfully insisted that the once its present standby arrange-

once again going out on a limb com-pared with other creditors. Because dents for bank rescheduling pack-

For example, the banks want the rescheduling to be implemented in stages rather than all at once as soon as it is signed. This would allow them to draw back from the deal in the event of adverse political lished with Mexico's \$48.7bn rescheduling agreed in principle last

Where the two deals are likely to differ significantly, however, is in IMF. Mexico has agreed to a close

nomic targets.

Also still to be set this week are the precise terms of the rescheduling self. including interest margins.

In this context Yugoslavia can plead favourable treatment because of its success in improving its balance of payments. The current account surplus is estimated at \$680m for 1984, \$160m more than foreseen

higher at \$850m to \$900m. Elsewhere, the Eurocredit and Euronote market got off to a rela- notes at a maximum yield of % tively quiet start to 1985. Among the point over Libor, and there is an an-few developments were a \$305m nual facility fee of ½ point as well loans in the country's total \$200m country seek a new standby credit ment expires at the end of this year. refinancing for Italy's state electric as a front-end fee of 20 basis points foreign debt as well as the strategic from the International Monetary In Yugoslavia's case, the emphasis company Enel and an Ecu 100m Eu-

Enel is restructuring part of a mitment from Yugoslavia to seek a \$15n deal originally arranged BY OUR EUROMARKETS CORRESPONDENT new IMF arrangement if it fails to through Bank of America in 1977, live up to a number of specific eco-These targets will relate to the level of the country's foreign exchange reserves, export growth and the trend of the halance of paydeal led by Deutsche Bank and ments, and they still have to be set, rently % point. This portion which which is one reason why this was due to mature in two years' which is one reason why this was due to mature in two years' week's talks may take several days. time will now have an eight-year life and bear interest at a prime it-

> rate (Libor) portion, which carries interest at a margin of % point, is being left untouched.

Société Générale of France is leading the 10-year facility for Nerunder its existing IMF programme. sa which is guaranteed by power This year it should rise further to at utilities in France, Italy and West least \$750m, bankers say, Yugoslav Germany. It has a 10-year life projections put the surplus even which can be extended to 12 of 15 years at the option of the banks. Terms provide for the sale of Euro-

BY PETER MONTAGNON, EUROMARKETS CORRESPONDENT, IN LONDON ANOTHER disappointment is in importance of Yngoslavia to many store for those commercial bankers industrial government creditors. Fund (IMF), the terms of which are expected to be finalised shortly. Bank creditors are seeking as part clear power concern Nersa. 25 DEST PETER MONTAGNON, EUROMARKETS CORRESPONDENT, IN LONDON ANOTHER disappointment is in importance of Yngoslavia to many industrial government creditors. Expected to be finalised shortly.

Lest week Previous week

Other bonds

EUROPOND TURNOVER

has not been much of a rally in non-

dollar markets, according to its fig-

All fixed-rate dollar bonds

showed strong gains last year, it

tal return of 14.7 per cent and U.S. Treasury bonds 14.3 per cent. This

is in marked contrast to sterling is-

sues, one of the weakest performers

A dollar-based investor who pur-

anywhere in dollar terms.

4,040.5 18.493

977.3 1,135.9

U.S. DOLLAR bonds outstripped all other major international capital market instruments in terms of tonew study by the U.S. investment house Salomon Bros.

The best performing issues in any market last year were Yankee issues (foreign bonds issued in the U.S.) which offered a total return of 15.9 per cent, Salomon Bros says. This is the first time that a U.S. dollar instrument has topped the league since it started compiling records in 1978.

Salomon defines total return as interest accrued, plus capital appreciation plus currency gains for issues in currencies other than the dollar. Its statistics show a marked turnround from the trend at midyear when French franc bonds were offering the highest return even after currency losses because of the appreciation of the dollar.

Since then the dollar has strengthened further and U.S. interest rates have fallen although there

interest. Swiss franc government bonds fared even worse, offering a negative total return of 14.6 per

Only Canadian dollar issues came anywhere close to the U.S. currency in terms of total return af-ter currency adjustment. Euro-Ca-nadian dollar bonds offered a total return in U.S. dollars of 9.7 per cent. Elsewhere Euroyen bonds offered a positive return of 2.1 per cent and French franc issues 1.8 per cent but dollar returns were negative in all

other currencies surveyed. The Salomon Bros figures show how devastating the effect of the said, with Eurobonds offering a to-dollar's rise has been on international investments. In purely sterling terms, for example, gilt-edged issues offered a total return of 8.9 per cent last year. But an investor who diversified out of sterling into other bond markets on a weighted chased UK government securities basis according to their size would at the start of 1984 would have lost have earned four times more - a to-13.1 per cent of his money by the tal return in sterling of 35.5 per

Sallie Mae starts year with novel Y25bn issue

BY OUR EUROMARKETS CORRESPONDENT

operation between hanks and gov-

lems, but also because of the rela-

tively high weighting of official

LESS THAN a week into the new bolding tax and other regulatory year the Eurobond market has al- changes last year. The choice of a ready been presented with its first novelty of 1985 in the form of a Y25bn Euroyen issue for Salite Mae, the Student Loan Marketing Association of the U.S.

This is the first time that a quasi U.S. government agency has issued a Eurobond in a currency other than the dollar. It comes in the format specially targeted for non-U.S. investors already established in the Eurodollar market by borrowers such as the Treasury and the Federat National Mortgage Association. Bankers believe that the use of the yen market is a natural exten-

yen issue also highlights the growing liberalisation of Japanese financial markets promised as a result of bilateral talks between Japan and the U.S. last summer.

Led by IRJ International and Merrill Lynch, the seven-year bond bears interest at 6% per cent with an issue price of 99%. Proceeds are to be swapped into U.S. currency hy

circumstances would be natural specially targeted format because they fear it could leave a future

identity of beneficial owners of the paper. That would be a contraven-tion of Swiss banking secrecy.

meant that its initial performance was not quite as sparkling as the prestige name of the borrower the borrower.

One problem with the issue that emerged on Friday, however, was that Swiss investors, who in other that Swiss investors, who in other the bonds at a discount of the week on the back of a poor per around 1% per cent, just within its formance in the New York bond total fees of 1% per cent, By Friday market. Only towards the weekend was there any sign of a recovery at all in the Eurodollar sector last week, but both Banco de Bilbao and

buyers of Euroyen paper, tended to shun the deal. Many do not like the Whatever the views of Swiss in vestors, bankers say that the Sallie

try to force banks to disclose the list of available Euroyen issues and five issues totalling DM 650m for may inject some life into a market this week, starting with a DM 200m that has turned rather dull after a issue for Finland today. As in the rush of new issues in early Decem-dollar sector bankers warn that Though the paper found ready ber. More new bonds are expected these issues will have to be very buyers elsewhere in Europe, that shortly, including one this week carefully priced to ensure a good reber. More new bonds are expected these issues will have to be very from Electricité de France.

bond markets generally started pected volume of new issues two might suggest. Some bankers said 1965 in a very cautious mood, with main factors are still a source of they detected lead manager support prices marked down for much of concern - the strength of the dollar tional, the discount had, however, that could put the market in a bet-marrowed slightly to 1% per cent. the mood to absorb a resumption of the quasi governmental Finnish Pa-Whatever the views of Swiss in-new Issuing activity expected in per Mills Association braved the estors, bankers say that the Sallie many sectors this week. many sectors this week. Mae bond will add some much West German bankers have, for of \$100m apiece.

loophole for the U.S. authorities to needed variety and quality to the example, scheduled no less than ception in what remains a slightly Elsewhere, the international nervous market Besides the exand fears of higher interest rates in

. (CURRENT INTERNATIONAL BOND ISSUES							
Berrowers	Amount m.	Maturity	Av. life years	Conpon %	Price	Lead Manager	Offer yield	
U.S. BOLLARS Billing let. Let. (a) †‡ Firmish Paper Mills (b) †‡	100	2800 1995		3/16 Ve	100 100	Wgn. Guaranty, Banco de E Konasadis-Osaka-Panidi, I Union Bank of Finland		
SWISS FRANCS Yukshin Co. ""\$ Tohya Store ""\$ Norges Kommunelbeak ""‡	39 50 45	1990 1990 1987	-	(2½) 2½ 4¾	100 100 100	UBS Swiss Volkshapk Bop Gatzwiler, K.B.	4.75	
BLCE :	75 50	1992 1995	7 10	93/4 97/a	100 190	Cr. Lyonnais, BBL	9.751 9.87	
GUILDERS LADB	200	1995	В	7%		ABN, AmRo		
LIXEMSOURE FRANCS City of Stockhoka "°\$	258	1990	5	10%	100	Bgs lat. a Lexent., Svenska flandelskanken	10.25	
YEN Sallie Mine ‡	25hn	1992	7	85/2	9974	18.J Int., Morell Lynch	6,57	
* Not yet priced. I Final tores	s. ** Private	Placement.	& Convertible	e. † Floati	ng rate po	ne. Ø With debt warrants.	7 With again	

organis. (a) The over 3-m Lineago first 6 anties, then The over 5-m Lineags. (b) Va over 5-m Libor, Mota; Yields are calculated on AUBO basis.



GÉNÉRALE OCCIDENTALE

Paris, France

Swiss Francs 80 000 000 41/2% Convertible Bonds 1984-1994

SODITIC S.A.

Bank Künzler AG Bank of Tokyo (Schweiz) AG Banque Bruxelles Lambert (Suisse) S.A. Banque Gutzwiller, Kurz, Bungener S.A. Banque Keyser Ullmann S.A. Banque de Participations et de Placements S.A. Banque Scandinave en Suisse BHF Bank (Schweiz) AG Citicorp Bank (Switzerland) Crédit des Bergues Dai-ichi Kangyo Bank (Schweiz) AG First Chicago S.A. **Grindlays Bank Plc** Hottinger & Cie Kredietbank (Sulsse) S.A. New Japan Securities (Schweiz) AG Nordfinanz-Bank Zürich Samuel Montagu (Suisse) S.A. Société Générale Aisacienne de Banque Groupe Société Générale -

Amro Bank und Finanz Bank Heusser & Cie AG

Banco Exterior (Suiza) S.A. Bank für Kredit und Aussenhandel AG Bank Oppenheim Pierson (Schweiz) AG Bankers Trust AG Banque de Dépôts et de Gestion Banque Indosuez, Succursales de Suisse Banque Kleinwort Benson S.A. Banque Pasche S.A. Barclays Bank (Suisse) S.A. Chemical New York Finance (Suisse) S.A. Compagnie de Banque et d'Investissements, CBI Crédit Lyonnais Finanz AG Zürich Daiwa (Switzerland) S.A. Great Pacific Capital S.A. Handelsfinanz Midland Bank The Industrial Bank of Japan (Schweiz) AG Lloyds Bank International Ltd. Nippon Kangyo Kakumaru (Suisse) S.A. The Royal Bank of Canada (Suisse) J. Henry Schroder Bank AG Sumitomo International Finance AG Sumitomo Trust Finance (Switzerland) Ltd.

Texas Eastern Corporation

U.S. \$200,000,000 **Euronote Issuance Facility**

Arranger

Swiss Bank Corporation International Limited

Underwriters

Algemene Bank Nederland N.V. Banque Nationale de Paris Den norske Creditbank IBJ International Limited

Saudi International Bank

Bank of Tokyo International Limited Credit Lyonnais Deutsche Bank Aktiengesellschaft International Westminster Bank PLC **Swiss Bank Corporation**

The Royal Bank of Canada (Overseas) N.V.

Union Bank of Switzerland

Bergen Bank A/S

Tender Panel

Bank of America Capital Markets Group Bank of Montreal Bank of Tokyo International Limited Bankers Trust International Limited Banque Nationale de Paris Chase Manhattan Capital Markets Group CIBC Limited Chemical Bank International Group County Bank Limited Credit Lyonnais Citicorp Capital Markets Group Credit Suisse First Boston Limited Deutsche Bank Aktiengesellschaft Dillon, Read Limited Fuji International Finance Limited Goldman Sachs International Corp. IBJ International Limited Manufacturers Hanover Limited Memill Lynch Capital Markets Morgan Grenfell & Co. Limited Morgan Guaranty Ltd Orion Royal Bank Limited Salomon Brothers International Limited Sanwa International Limited Saudi International Bank Swiss Bank Corporation International Limited Toronto Dominion International Limited Union Bank of Switzerland (Securities) Limited

Westpac Banking Corporation

Facility Agent

International Westminster Bank PLC

Tender Agent

Swiss Bank Corporation International Limited

This announcement appears as a matter of record only

December 1984

Jittery mood leads to sharp fall in bond prices

THE MOOD in the U.S. credit markets turned decisively jittery last week, producing a sharp slide in bond prices and setting a volatile trading tone for early 1985.

The price decline reflected a wide range of factors compounded by the still relotively thin market as retail investors stayed away in the holidayshortened trading week.

The immediate causes of the

price retreat and market un-certainty were a higher Fed Funds rate, confucion over the Fed's current monetary stance, further mixed economic signals and, perhaps most importantly, a beavy supply of new Treasury paper at the start of a quarter during which it is expected to ralse about \$50bn in new cash towards funding the \$200bn-plus Federal budget deficit.

What trading there was 100k years. place against the backdrop of Som place against the backdrop of a soaring dollar which hit new highs last week against several other major currencies, includsharp rally. Right on cue the

	Last	1 week	4 wks	—12-m	onth-
	Friday	ago	ago .	High	Lov
Fed Funde (weekly average) ,	8.79	9.20	0,80	11.77	y.8
Three-month Treasury bills	y.82	7.76	8.36	10-77	7.6
lx-month Treasury bills	8.10	8.10	8.61	10.83	y.9
Three-month prime CDs	9.25	8.30	8.95	11.90	0.2
O-day Commercial Paper	5.10	0.13	0.55	11-38	7.9
90-day Commercial Paper	9.20	8.20	8.75	11.40	9.1
U.S. BOND PRICES	Leat Friday	Change on week	(%) _Ybeld_	1 week	4 wic
	100%	- L	11.55	tnewl	(new
Seven-year Treasury					
Seven-year Treasury20-year Treasury	95	~ 14	11.82	11.62	11.8
	95\ 101		11.62	11.62	11.0
20-year Tmesury	95\ 101 N/A	~ 14	11.62 12.30		11.0
20-year Tmesury	95\ 101	~ 14	11.62	11.49	11.0

the spot gold price sank below morkets and elsewhere obout the \$300-an-ounce level on the possibility that short-term Friday in New York for the interest rates may already have the possibility that short-term interest rates may already have first time in two and a-half

other major currencies, including sharp rally. Right on cue the fed to add reserves through markets no new straight debt system repurchase agreements issues were launched last week cations of the current defiationary trend. Commodity interest rate predictions from prices continued to tumble and some economists and talk in the primarily a reflection of long-term issues fell by about

market to stay short.

The stable short-ferm money the stable short ferm money market rates were seen as an indication of the desire of those investors who did venture into the markets to stay short.

Meanwhile the economy designals with a larger than expected 4.3 per cent increase

ernment bond prices closed } of a point to 11 points lower.
On Wednesday the Treasury

most of the week in an 8.75 per cent to 9.25 per cent range despite aggressive moves by the Fed to add reserves ibrough In the U.S. corporate bond

In the government and corporate bood markets, however,
prices were marked sharply
lower from the outset resulting a 10.6 per cent decline in new
in a significant steepening of single family home sales. The
the yield curve. Despite a partial rally late in the week, govtial rally late in the week, govperment, bend prices closed. n slower than hoped for Christans season while the car makers delivered a batch of sparkling December and full year auto sales statistics. On Wednesday the statistics of the car makers delivered a batch of sparkling December and full year auto sales statistics. On Wednesday the statistics of the car makers delivered a batch of sparkling December and full increasingly with the U.S. markels look likely to be swept by further bouts of uncertainty as perceptions shift. As Mr more supported as perceptions shift, as markels look likely to be swept by further bouts of uncertainty as perceptions shift. As Mr markels look likely to be swept by further bouts of uncertainty as perceptions shift. As Mr markels look likely to be swept by further bouts of uncertainty as perceptions shift. As Mr makers delivered a batch of sparkling December and full. oucliooed \$5.75bn in seven-year year auto sales statistics. On notes bringing buyers an aver-wednesday the December unage yield of 11.87 per cent. The \$4.28bn 20-year bond auc-released.

U.B. ROLLAR

STRAIGHTO
Acyan Inaur 11's 91 ... 50

AHFC 0.'S Fin 11's 94 100

All Nippen Air 14 94 ... 100

Amer Saving 12 89 ... 125

Amer Saving 12's 99 ... 120

Asian Day 8k 11's 93 100

Australia 11's 90 ... 100

seasonal pressures.

Most other money market short-term interest rates were steading to some speculation about a further prime rate cut. The stable short-term money market rates were seen as an indication of the desire of those investors who did venture into

target growth range of 4 to 8 per cent. In the short term, the U.S. markets look likely to be swept notes: "Investors have turned increasingly uncertain over the near-term outlook for Federal Reserve policy and economic

Even with the big jump, MI still remains just below the mid-point of the Fed's 1984

octivity."
Already a new divergence of tion the following day resulted The weekly M1 announce-views is apparent smong senior in an average yield of 11.86 per ment will return to its regular Wall Street economists.

of bankruptcies and financial sirains that could plunge the world back into recession."

world back into recession."

"Market yields are likely in decline over coming months, perhaps even into the summer," but he notes that "this view to at sharp vorlance with the consensus market expectation of an imminent rate rise."

Dr Henry Kaufman of Salomon Brothers also cautionsly supports the view that the Fed is likely to maintain its recently

is likely to maintain its recently more accommodative stance, at least in the near term. He bases his argument on three main points, First, that while "economic stalling tendencles appear to have been arrested, it is far

Briggs Schaedle, argues in his latest credit market report that the suggesto that the "extralatest credit market report that the suggesto that the "extralatest credit market report that the suggesto that the "extralatest credit market report that the suggesto that the "extralatest credit market report that the suggesto that the "extralatest credit market report that he suggesto tha mic retardant as well as a disinflationary influence and argues that the Fed is probably argues that the Fed is probably now more sensitive to the link-age between dollar strength and domestic economic performance than it was a year aso. Third, he points out that while money grawth has improved during the past two months, there is "no immediate danger nf its exceeding the Fed's targeted ranges, especially for

geted ranges, especially for ML." Accordingly Dr Kaufman concludes that the Fed funds rate will probably decline fater this month as operating factors begin to supply a large volume of reserves.

Paul Taylor

UK GILTS

A muted bear market for 1985

that the gilt-edged market will by at least one of its main profollow a obmilar pattern this viders, is, the banks and the year to 1984's—a muted bear market punctuoted by periods not yet occurred.

Will occur sometime in 1985.

The effect of such o chain of events on the gilt-edged market will depend crucially on the of weakness. The main concerns are likely to be events in the U.S. and, on the domestic front, occasional anxiety shout funding, government borrowing and the price of oil.

U.S. developments ore likely to be especially important and, on balonce, bearish for gilts. Despite the sharp slowdown in U.S. economic growth in the second half of 1984, the condion balonce, bearish for glis, Despite the sbarp slowdown in U.S., economic growth in the second half of 1984, the conditions necessary for a full recession to develop there do not seem to be present. The 250 basis points decline in U.S. bond yields since June may well not herald the beginning of a prolonged bull market; in-deed, bigher U.S. interest rates than now prevail look probable

at some point in 1985. A recession does not normally develop before a serious disequilibrium has developed in the financial system. If a crowding out problems as up and is exacerbated by the recession were imminent in he occurred in early 1984. The uncertainty over the underlying U.S. one would have expected implication for U.S. bonds is rate of monetary growth, are

NEW ISSUE

The Fed has allowed bank reserves to rise and interest rates to fall. The continuing positive real growth in the broader monetary aggregates indicates that the Fed has

The Fed, fearing for its political independence, and not wanting to be seen to cause a recession, is unlikely to reverse this easier policy stance until the economy and narrow monetary growth revives.

When this revival occurs, the coincidence of high demands for funds from both corporations and the Federal govern-ment will create the same

to see o general denial of credit that a period of rising yields by at least one of its main pro- will occur sometime in 1985.

bottomed out."

The funds rate traded for

strength of the U.S. dollar at the time. Recent events have demonstrated that the dollar can rise when interest rates are folling. Even more clearly. It can rise when interest rates In general, when U.S. interest

rates are rising, the dollar is utilikely to be sufficiently weak for a rise in gilt-edged yields to be ovoided. The only qualification to this is if the rising selves a response to a falling

Turning to UK factors, there are likely to be short periods of rising interest rates, an experienced in July 1984.

The weakness of sterling, which is associated with oil price worries, and the pressure on funding, which is building

for inflation and the gilt-edged market in the longer term.

Robert Thomas W. Greenwell & Co.

FT/AIBD INTERNATIONAL BOND SERVICE

1014 7034 1014 554 7024 FLOATING RATE NOTES BTRAIGHTS CANADIAN DOLLAR STRATCHTS Br Col Prov 12 83 100
Bge L'indoeuez 14 91 76
Br Col Munic 137 91 ... 100
Br Col Telo 127 89 ... 70
Form Cred Corp 124 90 75
let 8k Rec Cev 124 90 75
Montreel City 127 91 ... 20
Quebec Hvdjo 14 91 ... 25 Auetralis & NZ 10½ 91 50
Cesierraich 10½ 91 50
Ebco Inni 10½ 89 55
EEC 11½ 91 50
EEC 11½ 91 50
EEC 11½ 91 50
Euro Cool & Stoel 6 34 60
Euro Invest 8k 10½ 94 60
Euro Invest 8k 10½ 94 60
Euro Invest 8k 11½ 92 55
Euro Invest 8k 11½ 93 50
Euro Invest 8k 11½ 95
Euro Invest 8k 11½ 95
Cen Finance 10½ 92 50
Int 8k Rec Cev 10½ 95 100
Int 8k Rec Cev 10½ 95 100
Int 8k Rec Cev 11 93 50
Int 18k Rec Cev 10½ 95 100
Nippon Cred 8k 11 91 50
Nordic Iau 8k 6 94 50
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Royal 8k Can 10½ 98 55
SNCI 10½ 94 50
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Wast 15 10½ 91 50 ECU STRAIGHTS AUSTRALIAN GOLLAR STRAIGHTS STERLING STRAIGHTS WARRANTS WARRANTS

SASP Overzoe

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Com Fia Gout OM

C. Itoh

C. Itoh

Credit Suisso

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. These Securities having been sold, this announcement appears as a matter of record only.

DECEMBER 1984

U.S. \$150,000.000

NEC Corporation

(Incorporated with limited liability under the Commercial Code of Japan)

2½ per cent. Convertible Bonds Due 2000

NEC

Credit Suisse First Boston Limited Daiwa Europe Limited

Amro International Limited Deutsche Bank Aktiengesellschaft Kleinwort, Benson Limited The Nikko Securities Co., (Europe) Ltd. J. Henry Schroder Wagg & Co. Limited **Sumitomo Finance International**

Verband Schweizerischer Kantonalbanken

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Banque Nationale de Paris **IBJ** International Limited The National Commercial Bank (Saudi Arabia) Nomura International Limited Société Générale de Banque S.A.

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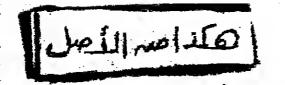
Baring Brothers & Cn., B.S.I. Underwriters Clariden Bank Сагеноуе & Со. Commerzbank Compagnie de Banque et d'Investissements, CBI County Bank Crédit Industriel d'Alsace et de Lorraine (Suisse) S.A. Crédit Lynnnais Dresdner Bank Enskilda Securities Robert Fleming & Co. Goldman Sachs International Corp.

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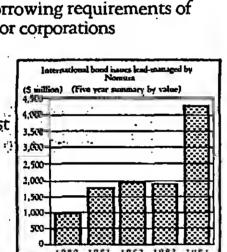
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In 1984, Nomura lead-managed 48 international public offerings totalling almost \$4.5bn

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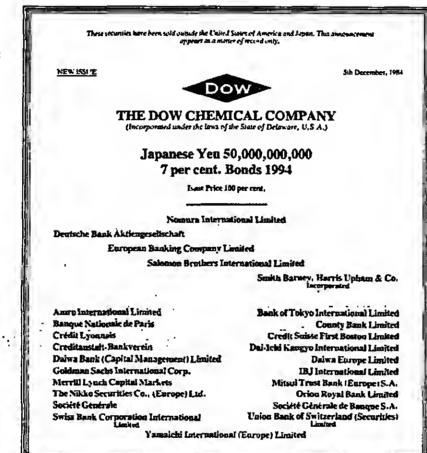
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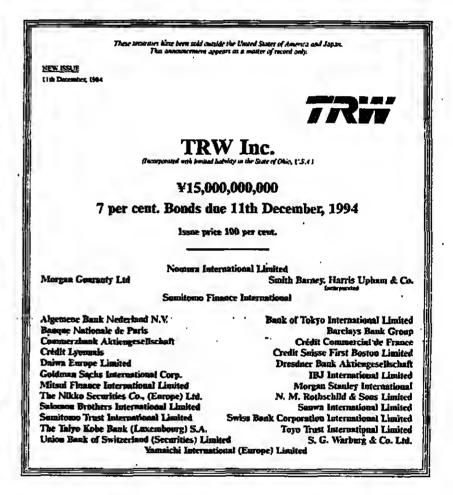
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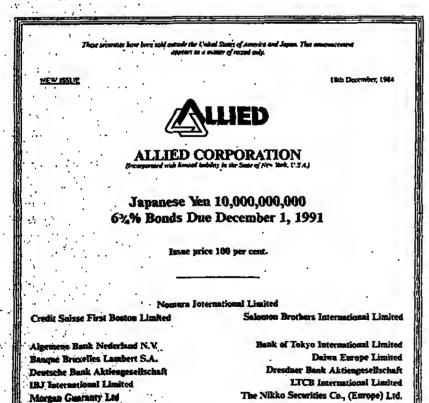


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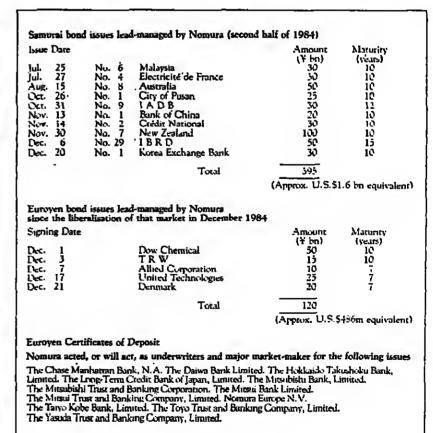
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CORPORATE FINANCE

London keen to soothe 'Yellow Book' fears

companies will now have a spend more money and time preparing the detailed documents and more often. Documents require the Exchange's is bid so that, if successful, it could have to issue shares totalling over 10 per cent of existing equity. But an issue of this size requires publication of leogity Listing Particulars (the equivalent of a prospectus), and your client loses the edge in the fight because of the time taken—and has meanwhile of the state of the size of the time taken—and has meanwhile of the state of the size of the time taken—and has meanwhile of the state of the size of the time taken—and has meanwhile of the state of the size of the time taken—and has meanwhile of the state of the size of the time taken—and has meanwhile of the state of the size of the time taken—and has meanwhile of the state of the size of the time taken—and has meanwhile of the state of the size of the size

has meanwhile clocked up additional underwriting Ices.
This is an example of the worst fears of City practitioners about the consequences of the London Stock Exchange's rew listing rules, ensurined in the "Yellow Book," which took which took effect last week.

The book incorporates standards set by the European Commission and gives the Exchange statutory powers which will of necessity make its Quotations Department much less ficxible—aod, many believe, slower—in dealing with companics issuing securities and their City sponsors.

For new issuers, the changes will make little difference to an already rigorous procedure.

MR IB STETTER, Denmark's

Industry Minister, has agreed to

allow Flexplao, a civil engiover-ing and construction company, to retrieve DKr 25m (\$1.9m)

from a deposit made against an

The decision will help to ease

the problems of Kronen-banken, the country's seventh

largest commercial bank, which

had to he rescued last month

with guarantees from the central bank and the three biggest Copenhagen banks. The

Bank Inspectorate found that a

substantial part of the bank's equity capital had to be regarded as lost following prob-

export credit guarantee.

Denmark in DKr 25m

move to help Flexplan

BY HILARY BARNES IN COPENHAGEN

1984 stampede for listings, especially by American companies, all parties—including the Stock Exchange— are feeling their way through the new rules.

It is already clear, however, that the Quotations Department is adopting a practical approach which will keep bureaucracy to what it hopes will be the minimum level will be possible.

Over the past six months, staff involved in reading sub-mitted documents have been expanded by a third, to about o, and the department is prepared to recruit more if necessary.

Because of the Exchange's

Kronenbanken provided guarantees worth DKr 650m to

Flexplan, most of which is backed by guarantees from the government's export credit council to cover the Nigerian

project, where Flexplan is building five small bospitals and making extensions to

Flexpan was asked to put up DKr 7am in deposits when it

obtained the export credit guarantees. It is DKr 25m nf

this money which was released to the company to save it from

suspending payments to credi-

another three.

procedures, like many paris of the Yellow Book, raises issues which will bave to be tested case-by-case. Ladhroke Group, bidding for Comfort Hotels, issued 36-page Particulars hut kept the offer document, sem out simultaneously, down to 16 pages because the former contained much data that would previously have been included in the latter.

If Particulars were published separately, however, the Take-over Code would require more information in the offer docu-ment, so there would be costly duplication. And what if an offeree shareholder, having irrevocably accepted a bid, was dismayed on seeing something

plice will be required of issu-ing companies, especially in submitting documents on time. and the Exchange's ability to grant waivers will be vary limited.

Some of the new disclosure -concerning, for example, details of important investments, licences, associate com-panies, directors' other interests—are open to interpretation and will no doubt be hotty disnuted by individual issuers. Some, such as directors' fraud information about current trading, can only be seen as sensible additions to investors'

time and space.

Most of the requirements add little to the sum of information available about a company, hut simply force the company to put if all together each time it issues a significant batch of Securities. including debis. insead of only at its original liering.

Mony expansion-minded companies will probably begin to keep up-dated Listing Particulars stored in word processors. the loss of flexibility will still have some effects. Large vendor placings, an increasingly popular method of funding acquisitions, will lose some of the speed and simplicity which have made them attractive.

And there will be positive features, nowever small. Appli-cation forms for shares may now be issued separately from the full prospectus, so the streets of the Square Mile will no longer be littered with prospectuses which have had the back page

Alexander Nicoll

knowledge. Others, such as details of employee share France assures Technip

BY DAVID HOUSEGO IN PARIS

of further state aid

TECHNIP, the ailing French capital increase for Technip. engineering group, has received assurances of further state oid that should safeguard its future. Although the amounts involved hare not been announced, government inficials said on Friday that it would be substantially in excess of FFr 200m

(\$20.6m1. The French government is apparently anxious that Technip, which obtains some 80 per cent of its earnings from exports, should not suffer (as did Creuset-Loire, the now liquidated engineering group), in competition for projects abroad by fears about its finan-

The government and the state-controlled oil groups Elf Aquitaine and Compagnie Fran-calse des Petroles are among Technip's major shareholders. All are expected to contribute to capital increases in the spring to cover losses and en-

Technip shareholders recently same year were around \$116m. contributed to a FFr 200m schemes.

Government officials said that the fresh eash injection—which could take place in two slices-would be substantially larger

solidated losses of FFr 224m in 1983, expects its operating losses for last year to be around FFr 250m. The consolidated deficit will have been further swollen last year, however, by losses incurred by Creusot-Loire Entreprises, its civil engineering subsidiary and by provisions on export contracts in the Middle East and developing countries.

At the same time as pumping fresh cash into the group, the government has approved rebetween 300-340 redundancies. This is less than the 435 redundaocies sought in the summer and postponed due to union pressure. The redundancies form part of a 760 reduction in the 2,753 workforce with the rest coming from voluntary departures, early retirement, retraining and job conversion

U.S. energy majors in merger discussions

By Paul Taylor in New York OCCIDENTAL PETROLEUM, OCCIDENTAL PETROLEUM, the tenth targest U.S. oil company, and Diamond Shamrock, another major U.S. energy group with substantial oil and gas holdings, have confirmed that they are "engaged in discussions looking towards a possible hundress combine. a possible husiness combina-

The two companies said their boards would meet to-day and added that a further announcement would be made

after the meeting.

Trading in the two companies' shares was suspended early on Friday at their re-quest. After trading was re-sumed, Dlamand Shamrock's shares jumped in heavy trading in close up \$3.25 at \$21 a share amid speculation that Occidental might pay up to \$25 a share or a total of about \$3.3hn to acquire Diamond Shamrock.

Wall Street analysts suggested that any deal would probably be based nu a slock swap — perhaps on a one-for-one hasis. Occidental's shares closed \$1.75 lower nn Friday

at \$25 a share.
An agreement between the two companies would mark a continuation of the recent wave of mergers and take-over activity in the U.S. oil industry. A merger between Occidental, with 1983 sales of S19hn and Diamond Sham-rock, with \$4hn in sales, would create the eighth largest oil company in the

It would also mark a change in direction for Occidental, which only two years agn pald 54bu for Citles Service, but has subsequently been has subsequently been aggressively selling Citles Service assets in a hid to lower its heavy debt hurden. This has been cut from \$6.3 m at the end of 1982 in \$3.6 m at the end of the third quarter last year.

First City Properties, the California property group controlled by the Canadian Belzberg family, appears close to winning its takeover hid for Scovill, a consumer production of the Canadian for Scovill, a consumer production of the Canadian for Scovilla and Canadian for Scovilla and Canadian for Scovilla Sco ducts group, after sweetening its three-week-old offer from

execulive, is supporting the

INTERNATIONAL APPOINTMENTS

New chief sought for Arbed Saarstahl

ARBED SAARSTAHL, the long-sick West German steelnaker — the country's higgest single recipient of state aid ever — has been plunged into a new crisis in the opening days of 1953. The company currently has nn chief executive, following the failure of its supervisory board to find a successor to Herr Jurgen Krakow, 62, who retired at the end of Decem-

ber.

Dr Wolfgang Bernbardt, who used to run the nowfailed Korf Stahl group, was expected formally to be installed in the post last Wednesday after months of negotiations with the Saarstahl supervisory board. But the board, which met in Dusseldorf on Wednesday had to announce he had withdrawn. nounce he had withdrawn. The former Korf executive's

negntiations had been connegntialions had heen conducted, it appears, with a small
elite within the supervisory
board. Dr Emmanuel Tesch,
president of Luxembourg's
Arbed, which is still nominally
Saarstahl's parent. Herr Rudolf
Judith, an IG Metall union representative, and Herr Günther Vogelsang, a Saarstahl

Dr Tesch sald later he had no idea why Dr Bernhardt had refused to take up the post. He indicated that the trin had already drawn up a list of other strong candidates and that the problem could be quickly resolved.

the made it clear he felt the contract he was finally offered was too restrictive, and would have meant him having to consult with the supervisory board on most major decisions. "For my part, I am always prepared to deal with details," he said, "but I also need a free hand."

The supervisors face similar problems in trying to persuade anyone else to run the company More than DM 3hn (around Sibn) has already been sunk into the company by the State; there is little hope of returning to profitability despite an improved turnover forecast for this year; Bonn insists it will stick to a European Economic Community dreision in out off all steel aid at the end of the year; and possible joh losses at Saarstahl are bound to play an important role in state elections in Saarland in May. Managing the company has become exceedingly complex and political.

Saarstahl lost DM 123m (about \$40m) in 1983, a marginal improvement on 1982, and is expected to turn in further losses for 1984. So critical have the steelmakers' operational difficulties become that nnly days after winning European Commission approval for a life-saving injection of DM 77m in Nnvember, it was back in Brusstrong candidates and that the problem could be quickly resolved.

Dr Bernhardt, however, has be made this year.

Pistner takes top post at Rapid-American offshoot

RAPID-AMERICAN has confirmed that Mr Stephen L.
Pistner, who last week resigned
as chief executive nf Montgomery Ward, the Chicago
retailer is taking over as chairman and chief executive of the McCrory Corporalinn, the retail subsidiary of Rapid, Ha also becomes senior vice-president and a corporate director of Rapid-American.

Mr Pistner, 52, is believed in be receiving a remuneration package of around \$3m including some equity in Rapid-American. He describes his new appointment as an exciting opportunity and says be has

been mandated to generate a new strategic plan for McCrory, where profits dropped by 46 per cent to \$15.8m in the birst nine months of this year on sales 6 per cent higher at \$1.1hn.

At Montgomery Ward, a subsidiary of Mobil, the U.S. nil major, Mr Pisiner was regarded as an abrasive executive whose reign was punctuated by the departures of nther senior management members.

Mr Meshulam Riklis, chair-man and chief executive of Rapid American, is known as an aggressive, expansion-minded entrepreneur.

Heineken buys Quilmes stake HEINEKEN, the Dutch brew-

Qullmes is involved in brew the South American brewery and Paraguay, with beer sales over in 1984 was about \$50m. group, for about \$10m, writes amounting to 4m hectolitres in the Laura Raun in Amsterdam.

**Transport of the South American brewery and Paraguay, with beer sales over in 1984 was about \$50m. Net sales of Esso Chemie in the these countries. ing multinational, is to acquire ing, malting and soft drinks a 15 per cent stake in Quilnies, making in Argentina. Uruguay

Exxon's Dutch unit acquired by Kemira

By Lance Keyworth in Helsinkl

KEMIRA, the Finnish state-owned chemicals group, has hought Esso Chemie, Exxon's Dutch subsidiary, for approxi-mately FM 500m (\$75m). The deal will be financed partly from Kemira's own capital and partly from foreign loans. The plants at Rozenberg,

near Rotterdam, include natural gos-based ammonia plant with a production capacity of 530,000 tounes a year, most which is processed into fertiliser. The surplus of about 150,000 lonnes will be shipped to Finland, which currently has to import about 80 per cent of

As part of the deal negotiated with the mioister, Kronehanken agreed to convert DKr 190m of its ammonia requirements.

Mr Yrjo Pessi, president of Kemira, says that the takeover from Exxon was "the most recent step in the international expansion of Kemira group which acquired the UK-based to the U lems over a guarantee by the bank on a DKr 750m hospital construction confract in Nigeria being unedrtaken by Flexplan, capital. L and K Fertilisers and the paint manufacturers Donald Macpherson Group in 1982 and

than this.
Technip, which made con-

sure future activity. Elf, which has increased its

stake in Technip from 24.5 per cent to 33.3 per cent, and other

\$35 a sbare or \$430m in \$42.50 a share nr \$515m, Mr William Andrews. Scottil's chairman and chief



All these Notes having been sold, this announcement appears as a matter of record only.

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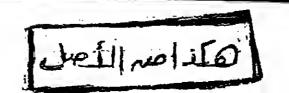
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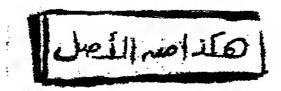
SOCIETE GENERALE DE BANQUE S.A.

YAMAICHI INTERNATIONAL (EUROPE)

November 28, 1984

SOCIETE GENERALE





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FIXED INTEREST STOCKS

EQUITIES

Pearl Assurance has mixed British year for new business

reported a mixed new business pattern for 1984 with a 4.4 per cent drop in new annual pre-miums from £57.8m to £55.3m. offset by a rise of more than onset by a rise of more than balf in single premium business from £24.1m to £36.8m. New sums assured were £943m compared with £1.03bn and new sumultes were £39.3m against £508.8m.

128.6m.

The decline in new annual predictions came in the Ordinary branch where a fall of 15 per cent from £24.8m to £21.1m was orded. Unit linked life business was bunyant despite the ending of Life Assurance Premium Relief, rising from 55m to 55.6m, while linked pensions annual premiums more than doubled from 5600,000 to 51.6m. Self-employed business, both traditional and unit linked, was buoyant with annual premiums Self-employed business, both traditional and unit linked, was buoyant with annual premiums sales of llaked life bonds, which rising two-thirds from £3.6m to more than doubled on the veer £5.9m. The decline in annual premiums came from lower sales of more £8m to £16.6m. Single premium payments on self-

BOARD MEETINGS

The (cliowing companies have netified dates of beard meetings to the Steck Exchange. Such meetings are usually held for the ourposes of concidents, difficial indications are not available as to whether the dividends are interims or finals and the subdivisions shown below are based mainly on last year's limitable.

Interims Berkeley and Hay Hill Investments, Cercle Engineering, Ellis and Everald, F. H. Tomkins, Final: A. G. Serr.

of savings and mortgage-related contracts hit by the loss of LAPR and affected by 1983's boom conditions arising from MIRAS.

BIDS AND DEALS IN BRIEF

Intaring—
Alsa Investment Trust Jan 14
Assectated flames Jan 25
Brasway Jan 3 1984, and resulted in a Gresham Trus; and 3 (Investment Stantial equity contains and 3 (Investment Investment Trust Jan 15
Westood Investment Trust Jan 18
Abbey Panels Jan 23
Abbey Panels Jan 24
Andewn Investment Trust Jan 18
Andewn FUTURE DATES Westpool Investment Trust Jan 15
Finals—
Abbey Panals Jan 18
Anglia Telaviren Jan 23
Randia Telaviren Jan 23
Rody Shoo International Jan 14
Final Investments Jan 14
County Properties Jan 16
Electrenic Machine Jan 17
First Leisure Jan 15
Lleyde Sank Mar 8

employed contracts showed a near 50 per cent rise from £700,000 to £1m. Business in the Industrial branch held up well, despite the loss of LAPR with new annual premiums of £34.2m against £33m

in 1983. However, 1984's figures included an extro four week

Following the acquistinn of Link House Publications, United Newspapers has taken over the 31 per cent of Yellow Advertiser. Contrary to soma reports.
Uoited has neither acquired
Yellow Advertiser nor has it become the proprietor of any of its publications.

Kenyon Securities has agreed to acquire the freehold premises, goodwill and fixed assets of F. Cletterham & Son, funeral director of Bury St Edmunds, for £182.500 cash. Benefits are expected to arise from integrat-ing Clutterham with the Kenyon's existing business in

Current value of the assets being acquired is £182,500, and the profit attributable thereto is

Wyndham Engineering has acquired a further 290,082 ordinary sbares of John Williams of Cardiff.

NEW ISSUE

Gellaw Props, jointly owned by Mr Brian A. Brownhill and Mr Brynmord Jones, chairman and director respectively of Wyndham, have acquired 343,028 ordinary shares and entered into an unconditional contract for the purphs of a further 300,000

purchase of a forther 300,000, not later than December 6 1985.

Wyndham and subsidiaries own or bave the right to acquire 25.94 per cent of the issued capital of Williams,

Hollis Bros., which is 81.7 per cent beld by Pergamon Press, has cent beld by Pergamon Press, has agreed, subject to shareholders' consent, to buy Diomede, which is a subsidiary of A. H. McIntosh and Co., and which is in receivership, for film. Consideration will be satisfied by the issue of 1.6m new, fully paid, ordinary shares in Hollis. The company owns the trade and goodwill of Meintosh trade and goodwill of McIntosh. Hollis has also contracted to buy freehold factory premises in

Kirkcaldy, for £0,95n

McIntosh had turnover of £5.4m and about broke even, but losses in 1983-84 led to the appointment of a receiver. Net assets at December 7 came to fim.

Arthur Harrison & Co, of Bramley, Leeds, has merged with its near-neighbour, Reuben Gannt & Sons, of Farsley, through the acquisition by Gaunt's of Harrison's shares.

The two cloth manufacturing companies bave, fore some years, had a close association with each other. Harrison's were a pri-volely-owned company and em-ploys about 70 people. Turnover is about £2m a year. Gaunt's employs 150 people and

bas turnover of about £4m a year. It has made blg inroads into the fashion industry, trading under the name of Scott & England (Fabrics). Job losses will be at an "absolute' minimum" as a result of

In the year to Occober 1 1983 the merger. These Bonds having been sold, this announcement appears as a matter of record only.

Benzol £0.52m in red

The miners' strike has bit British Benzni Carbonising hard in the six months ended September 30 1984, and resulted in a loss of £522,000.

the group broke even, leaving the £56,000 carned in the first half as profit for the full year ended March 31 1984.

The group ic involved in the manufacture of coke and smokeless fuel, and the mining and hlending of cnal. Its sales in the half year fell from £7.14m to £4.79m.

After minorities £3,000 (£4.000 and £11,000 for tax), the net loss for the period is £519,000 (profit £11,000), equal to 2.3p (0.05p earnings) per share. No figures are included from Energy & Commodity Trading In view of the short period since acquisition. Its principal business is importing and distributing bituminus coal

AAH expansion

AAH Holdings has contracted to purchase Herbert Ferryman, pharmaceutical distributor. Consideration will be equal in Ferryman's net tangible asset value at December 31 1984 which is expected to be approximately \$1.6m. AAH has also completed the acquisition of Northern Pharmaceuticals for £450,000 in cash.

Management accounts for AAH, a distributor of fuel, builders' supplies and pharmaceutical products, for the eight months to end-November 1984 show pretax profits broadly similar to those for the comparable period of 1983. The miners' strike is having an adverse effect and trading in the final few months of the year will depend materially on the solid fuel distribution business.

DECEMBER 1984

U.S.\$100,000,000

The Queensland Government Development Authority

(A corporation constituted under the laws of the State of Queensland)

11%% Guaranteed Bonds Due 1989



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S. G. Warburg & Co. Ltd. Algemene Bank Nederland N.V. Arab Banking Corporation (ABC) Julius Baer International Banca Commerciale Italiana Banca del Gottardo Baok Gutzwiller, Kurz, Bungener (Overseas) Bank J. Vontobel & Co. AG Bank Leu International Ltd. BankAmerica Capital Markets Group Bank of Tokyn International Bankers Trust International Banque Française du Commerce Extérieur Baring Brothers & Co., Bayerische Vereinsbank Berliner Handels- und Frankfurter Bank Chase Manhattan Capital Markets Group Chemical Bank International Group Citicorp Capital Markets Group Crédit Lyonnais Crédit du Nord Dai-Ichi Kangyo International Daiwa Europe Effectenbank-Warburg Enskilda Securities Fuji International Finance haftliche Zentralbank AG Girozentrale und Bank der österreichischen Sparkassen Handelsbank NW (Overseas) Hill Samuel & Co. Kredietbank N.V. LTCB International Knwait Investment Company (S.A.K.) Mitsubishi Trust & Banking Corporation (Europe) S.A. Mitsubishi Finance International Morgan Guaranty Ltd

Manufacturers Hanover Mitsui Trust Bank (Europe) S.A. Samuel Montagu & Co. Morgan Stanley International The National Bank of Kuwait S.A.K. The National Commercial Bank (Saudi Arabia) Nippon Credit International (HK) Ltd. Österreichische Länderbank PK Christiania Bank (UK) PaineWebber International ernational (Hong Kong) Salomon Brothers International J. Henry Schroder Wagg & Co. Société Générale Société Générale de Banque S.A. o Trust International aska International The Taiyo Kobe Bank (Luxembourg) S.A. Takugin International Bank (Europe) S.A.

Verband Schweizerischer Kantonalbanker

Yamaichi International (Europe)

FINANCIAL TIMES STOCK INDICES

Wood Gundy Inc.

Toyo Trust International

Tokai International Limbed

Westdeutsche Landesbank

1	Jen. 4	Jen. 3	10n-	al al	an	nec.	High	4:25 Low	Since Co	mpilatn Low
Government Secs.	a1.1a	D1,00	21.21	21,71	86.18	81,26	24,77	76,72	197,4	49,12
Fixed Interest ,	85.04	84.86	25.27	a5,36	25.84	85,35	87,48	80,43	150,4	50.52
Ordinary	941.0	928,7	840,4	952.3	945,9	929.0	a52,3	755,3	959.3	49,4
Gold Minus	459,0	451.3	473,a	478.9	474,1	478.6	711.7	461,3	734,7	43.6
FT-Act.All.Share	525,46	661.22	565.57	592,94	582,74	582,83	592,94	454,84	662,94	61,92
FT-SE (00	1214.6	1904.1	1220.0	1232,9	1225,2	1210.9	1232.2	986,9	1228.2	986.e



INFO Plerson sht 214, Amsterdar

Vereins- and Westbank

Yasuda Trust Europe Limited

Ford main dealer bought for £1.45m

Senior resolves dispute with Combustion

A LEGAL dispute, between Senior Engineering and Cnmbus-tinn Engineering of the U.S. over the use by Senior and two of its U.S. subsidiaries of Combustion's drawings for making replace-ment parts for Combustion boilers, bas been resolved

amicably.
Combustion has granted, to

Combustion has granted, to the Senior companies, rights to the drawings for an initial period of 10 years for a mutually agreed consideration.

Senior said last October that the U.S. legal costs of this action, which was begun in November, 1983, were £230,000 in the first half of 1984. the first half of 1984.

COMPANY NEWS IN B

Ulster Investment Bank, the nerchant banking arm of Ulster Benk, itself part of the National Westminster group, increased after-tax profits marginally to \$13.23m (£2.76m) in the year to September 30 1984 despile the period being in many respects the most difficult since its formation in 1973.

Total assets increased by 8 per cent to £657m (£565ml and total denosits by 8 per cent to £593m (£510m). Advances rose by 13 per cent to £290m (£250m), while acceptance credits remained static at £29m (£25m].

There has been a setback at Rotaprint, maker of offset litho-Rotaprint, maker of offset lithographic printing machines. The loss for the first half has shot up from £165,000 to £443,000 and, in spite of the bistorical improvement in the second balf, the size of the loss "makes it unrealistic to anticipate a profit for the full 12 months," the directors state.

Consequently payment of the arrerars on the 11½ per cent cumulative convertible redeemable preference shares is not

able preference shares is not envisaged in the near future. At October 1 arrears amounted to E129,000. In the second balf of last year the company was in profit to the tune of £397,000.

In the six months, ended from £7.39m to £7.05m and the

LADBROKE INDEX Based on FT Index 933-937 (+11) Tel: 01-427 4411

trading loss increased from £65,000 to £306,000.

THE FIRST few months of the current year at G. & G. Kynoch, woollen cloth manufacturer, had shown a higher activity level in all production departments, Mr G. D. J. Hay, the chairman, told the annual meeting.

Orders received in the end of November were ahead of budget

in both volume and value and showed a healthy increase on the same period last year. This trend had continued into December.

In the year to Angust 31, 1984, the company returned a pre-tax profit of £91,059 (£14,070 loss) on turoover of £3m (£2m).

F.T. Share Information The following securities have been added to the Share Infor-

matlon Service: Aberdeen American Petroleum (Section: Oil and Gas) Access Satellite International (Buildings)

Breakmate Caterers) Craton Lodge & Knight Group (Industrials)
Great American First Savings

Bank (Americans)
Hercules Inc. (Americans)
INSTEM (Electricals) Kisrk-Teknik (Electricals)
The Limited Inc. (Drapery and Slores)
PSM International (Industrials)

Market Investment (Trusts/Finance Land)
Share Drug Stores (Drapery
and Stores)
UDO Holdings (Industrials).

Standard & Chartered

Standard Chartered Finance B.V.

US\$200,000,000 Guaranteed Floating Rate Notes 1994

Guaranteed on a subordinated basis as to payment of principal and interest by

Standard Chartered Bank PLC

(Incorporated with limited bability in England)

In accordance with the provisions of the Notes, notice is hereby given that for the six months period (182 days) from 7th January to 8th July, 1985 the Notes will

The interest payment date will be 8th July, 1985. Paymant which will amount to US\$480.28 per US\$10,000 Hore, will be made against surrender of Coupon No. 3.

J. Henry Schroder Wagg & Co. Limited

Clerical Medical

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Offer 120.3 150.6 125.5 166.9 119.4 156.4 107.3 122.0 104.7 102.8

189.7 238.7 135.3 231.1

113.4 148.5 101.9 115.8

140.7 307.5 186.9 231.7 129.5 230.1 115.5

+0.1 +1.8 -0.6 +3.7 +0.1 +1.4 -0.3 +1.7 +1.4 +1.3

+0.1 +2.0

carry interest at the rate of 91's per cent per annum.

Executivn Investment Prosing Plan

Cash Fund
Mixed Fund
Fixed Interest Fund
UK Equity Fund
Overseas Fund
Index Linked Fund
Stock Exchange Fund

Mixed Fund
Fixed Interest Fund
UK Equity Fund
Property Fund
Overseas Fund
Index Linked Fund

crated with km-red kability and established at Amsterdam in The Netherlands)

Osoja

Granville & Co. Limited

Over-the-Counter Market

5,380



MR NEIL SMITH, a former director of Harold Perry Motors, has acquired fronbridge Garage, a Southall-hased Ford main dealership, for £1.45m.

The funding includes a substantial equity commitment from Gresham Trus; and 31 (Investors in Industry), as well as finance in Industry), as well as finance the Romans Croup for about

Snuthall.

The management of Romans of Farnborough, a BMW distributor, bought the business from the Romans Croup for about fitm on January 2, 1985. A new company, Barons of Farnborough has been formed to effect the buy-out, and future trading will be under that name.

be under that name.

Chief executive of Barons Is

Mr John Knowles, who has been deafership before the seguistion. Mr Smith will operate the Ford main dealership franchise at Southall, covering a large area of West London.

managing director of the Romans Croup for the last slx years. He and his ro-director, Mr lan Cronin, have a controlling interest in the new company, with Barclays Development Capiof West London.

The business will consist of new Ford car and light commercial vehicle sales, used car sales, tal holding a minority stake.

RHP ready for new phase

of expansion

As a result of the "difficult and often unpleasant" decisions taken over the past four years, the directors of the RHP Group can face the future with confidence, ready to take the group forward to a new phase of

ansion. The financial posi-	"RIGHTS" OFFERS	
he group makes bearings, trical products, and fasteners. the year ended September 28 to its profits recovered sharply	Issue Stock 1984-85 Stock	price
m £660,000 to £6.23m, this ag second only in the record of 1979-80. The dividend ifted from 1.25p to 3p net.	64 NII 88 9pm 2pm Bairstow Eves 5p	Spr Spr Spr
S IN BRIEF	50 Nii 122 180m 5pm lura Miil 2120	
ling loss increased from 000 to £306,000. * * * * E FIRST few months of the	115 F.P. 4/2 148 143 Notts Grisk	5 5 2 2 2 2 2 2 3 3 3 3 3

Renunciation dots usually test day for dealing free of stamp duty. A Figures based on prospectus estimates, d Dividend rate pold or payable on our of capitats cover based on dividend on full capitat. A Assumed dividend and yield. U Forecast dividend cover based on previous year's samings. F Rividend and yield based on prospectus or other official astimates for 1985. H Rividend and yield based on prospectus or other official estimates for 1985. H Rividend and yield based on prospectus or other official estimates for 1984. O Gross. O Pence unless otherwise indicated. F secued by tender, B Official bodders of ordinary shares as a "rights." ** tssued by way of capitalisation. Si Reintroduced. Ti tseued in connection with reorganisation marger or uksower. E Allottens latters or fully-paid. Ill introduction, E Unitation Securities Market. Si Placing price. T Figures assumed. 11 Official London Listing 12 Dealt to ander Rule 535(3), 1 Comprising 100 Pri. ond one Ptg. share.

PENDING DIVIDENDS

Dates when some of the more important company dividend statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's announcements except where the forthcoming board meetings (indicated thus*) hove been officially notified. Dividends to be declared will not necessarily be at the amounts in the column headed

mouncement last			
- Date	Ment lest year	Dote Kenning	Annound mont las year
ColloidsJan 18	Interim 1.0	MotorJan 12	Final 4 0
oc OairlesJen 2	Interim 1.25	LonrheFeb" 9	Final die
oc NowspJan 11	Final 7.5	MFI FurnituroJan 17	Interim 1
stord		*Magnot and	
(\$.&W.]Jen 31	Final 6.5	SouthernsJan 10	Interim 2
TelecomJen 10	Interim duo	Morcentile	
vn (J.)Jan 31	Intorim all	HouseJon 24	Interm 3
trovincial		Rocal ElecaJan 17	Interim C
EstatesJan 17	Intenm 3.0	*Rank 12rgJan 29	Final 6.0
an 26 معلب	Interim 2 875	51ock	
Mail &		ConversionJan 30	Interim 2
Gon Tet Jen 11	Final 22 5	Them FMI ton 10	Interes 5

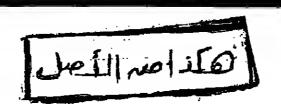
Them EMIdon to Trusihouse Forte...dan 19 Finat 6 25 Gon Tst...Jen 11
Govy CorpnJen 20
Interm 1.1
PlantonoJen 17
DowtyJen 20
Interm 1.1
Planton 12
Interm 1.1
First Nat. Fin...Jen 25
Firsh Nat. Fin...Jen 25
Gold Fielde SA Feb 7
Guinneso (A.)...Jen 17
Final 4.1
Hoose Oiscount...Jan 30 Final 23 Ventone Viyella...Fob 7 Final 50 Wagon Finenco...Feb 10 Final 1 375

* Sourd meeting indimated. † Rights Issue sinco made. † Tox treo. § Scrip Issue sinco made. † Forecost.

Member of the Notional Association of Security Coalers and Investment Managare

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th. Company
Asn. Brit. Ind. Ard. ... 141 + 1 88 47 7
Ass. Brit. Ind. Cults. 141 + 1 88 47 7
Ass. Brit. Ind. Cults. 148 - 10.0 2.8
Airepring Group ... 53 - 8.4 12.0 2
Armitago & Rhodes ... 41 - 28 7.0 5
Bardon Hill ... 133 - 1 3.4 2.8 13
Brey Tochnologies ... 48 + 1 35 7 3 5
CCL Ardinory ... 173 - 12.0 2.8
CCL Ardinory ... 173 - 12.0 2.8
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CCL Ard 15,653 326 1,060 2,099 1,677 4,160 11,898 5,275



FINANCIAL TIMES SURVEY

Monday January 7, 1985

Standby Power

The need for standby power has increased with the much greater reliance on computer-run business transactions. Industry and the public sector also have a substantial demand. Technical developments are making the sets increasingly sophisticated

Back in the limelight

AFTER SEVERAL years when the subject hardly needed to be the subject narray needed to be thought about, power supply bas of necessity become a talking point in Britain's board-rooms over the past few months.

Though the miners' strike this time has not led to power cuts, so in 1974 the more possibility. as in 1974, the mere possibility has been forcing companies to look at their standby power pro-

And, compared with ten years ago, the need for such provision has dramatically increased, as more and more operations with-in business have come to depend on computer transactions. All this is good news, poten-tially at least, for one recently relatively hard-pressed sector of industry, the manufacturers of generator sets—the main equipment used to provide

In the UK market substantial over-capacity currently exists and in export markets demand and in export markets demand for generator sets has in many because they are called on so cases reached a plateau. At the same time, competition has become ever more fierce. On should last at least into the tha back of the 1970s boom in 1990s.

Some of the larger companies complain, too, that the public tha back of the 1970s boom in home and export sales the number of companies manucomplain, too, that the public sector should be doing more than the purchasing policies

main growth, has been in the

"IDENDS

Survey by

Alastair Guild

ment, Ministry of Defence, water boards and electricity boards following fairly close behind.

In the private sector, which accounts for roughly half of total sales, demand has been tapering off, according to Mr Iain Dale, chairman of the Association of British Generation. Association of British Generating Set Manufacturers (ABGSM). Growth is continuing, however, in sales to service industries, such as retailing and hotels, and to the financial services sector including banks.

Policies

Replacement business offers tions overseas have been diffi-elatively few opportunities; cult, UK manufacturers have

facturing generator sets rose sector should be doing more dramatically, with a total of 125 through its purchasing policies companies entering the market to support them, thereby beloing between 1973 and 1978 alone.

In the domestic market the mess in overseas markets. The ness in overseas markets. The quality control standards set down in the government's procurement initiative are met by the bigger companies, it is public sector. The Property down in the government's proServices Agency is probably curement initiative are met by
the largest purchaser, with the bigger companies, it is generator set industry from Department of the Environargued, but not always by many engine manufacturers does

so reducing the profits-of the well-established cturers which then have fewer resources to devote to their export marketing effort. The public sector should insist

committee. The world recession and the protectionist policies adopted by many countries, which, until recently, were major importers of British generator sets, have added to the difficulties. Indonesia for example, has put up barriers to imports of certain ranges of diesel sets, to protect what It claims is its indigenous

production capability.

It is now the largest market for Japanese generator set exports, average unit weight 240 kg or above. In 1983, Indonesia imported £13.90m worth of sets from Japan, though analysts suggest that these will be mainly petrol-powered, rather than diesel-powered sets.
Yet, although market condi-

had notable successes. The UK has taken over from the U.S. as the top exporter of generator sets. The industry also expects that as countries develop their that as countries develop their own grid system, so the market for standby sets will grow. This is already happening in Egypt. Turkey and Libya, where standby is installed in public buildings such as hospitals and banks. The technical demands from areas such as the Middle East

in America, by contrast, sets tend to be assembled by a company in the same group as a large engine manufacturer. The UK industry tends, instead, to identify the needs of the on companies meeting such customer, based on the appliquality control standards, says Mr Ian Landgrebe, secretary of the NEDO generating set sub-

also on technical grounds.

Though UK generator set manufacturers do import foreign engines, the expected influx of Japanese engines, feored two years ago, has also largely been averted.

Japanese engines sell well ance, cont nontheless in south east Asia panels and and the Middle East and a generators.

Number of larger UK companies Various in the National Companies various vari number of larger UK companies
bave decided that to compete national standards exist for effectively in such markets, they must manufacture from over- not for the two together. Mr effectively in such markets, they must manufacture from overseas bases. Petbow, for example, sells from Singepore, and Dale from Mexico and Thailand.

West Germany

Export growth rates %

TOTAL

UK % of total ..

Generating set exports compared

Total — 29.9 — 0.5 +51.5

Vincindes petrol powered sets.

Source: Association of British Generating See Manufacturers

of the new entrants into the give it a flexibility of con-market. figuration which is lacking in when the 1970s boom ended.

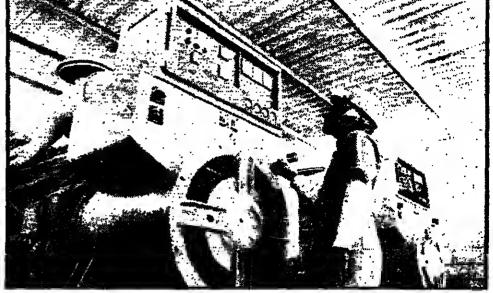
These companies may be many competitors, Mr Dale Dale's Spanish-speaking office in gaining business in the public argues. Florida, for example, will sen-Florida, for example, will service and develop the South American market.

> further indication of the increasingly international nature of the generating set industry is the standards riw being developed by a working group set up by the Inter-national Standards Organisation in 1982. A draft international standard for reciprocating inter-nal combustion engined driven generating sets will be circulated in May this year. It will lay down standards for the application, rating, performance, controls, switch gear panels and testing of diesel

Bob Wheadon, convenor of the

working group points out. In the UK itself Several companies have also rationalisation of the industry set up offices to fill tha gaps is regarded by leading manufac-

253.2 181.6 153.5 117.1 55.2 38.0



Two Pethow 500kw generators which supply continuous power to a Middle East cement factory

turers as long overdue. "We thought economic factors would hring it about, but companies have just gone from a small factory back into a garage in many cases. They have subcontracted much more and laid people off but they still exist. They fight on very tight margins and that makes it a difficult in-dustry to be in, at present." Mr Dale observes.

Among the pressures now facing the smaller companies, bowever, is the increasing demand from customers for a more sophisticated product. The mix between specialist and standard sets has moved from 60 per cent standard and 40 per cent special in the 1970s to 40:60 now, with the trend towards more specialised units particularly apparent among buyers in the services sector.

Some new business is also being created as a result of the Government's scrapping of the Central Electricity Generating Board's monopoly on electricity supply. The 1983 Energy Act allows husiness to generate their own electricity.

Among generating set manu-facturers Dale Electric has already carried out a number of schemes for hotels, enabling them to become self-sufficient in electricity, with the equipment in many cases being extended late a combined heat and power (CHP) system, making use of mershy best

energy in diesel oil into usable energy is about 40 per cent. If it is combined with a CHP system this can double to about become simply the top-up.

At the larger end of the market where sales of gas turbines as standby, or for peak lopping, have generally been static, manufacturers have also been looking at the possibilities offered by systems such as CHP. Waste gases from refining or petrochemical processes can, for example, be used as fuel for turbines.

Merge

Earlier this year. GEC and Rolls-Royce merged their gas turblne generating set interests, making GEC Rolls-Royce (Power Generation) the world's main supplier of rapid-start sets. Aero-derivative gas tur-bines—effectively industrialised jet engines—can provide up to 80,000 kw of power in under three minutes.

Mr Mervyn Leah, the new company's marketing manager, says the U.S. will continue to be the largest market, with the offsbore market also growing.

'I can foresee an increasing interest in gas turbines for standby as some of the units installed during the late 1960s,

not be that great,

Lower down the scale, hatteries now play an increasingly important role in the protec-tion of telecommunications, computers and computer networks and processing control equipment from interruptions or fluctuations in the main supply. The major technical development has been gas recombination technology to give "sealed, maintenance-

give "sealed, maintenance-free" lead acid batteries. The world market for lead acid batteries as standby for information technology applications, including uninterruptible power supply (UPS) systems is estimated at over £125m. Telecommunications is the second largest market (£70m), then power generation/distribution (£55m), and emergency lighting and railways, both about £30m.

Nickel cadmium continues to be the main alternative to lead

be the main alternative to lead acid batteries. Sealed nickel cadmium batteries are available, but the range stops at 30 ampere/hour. Nickel cadmium batteries are more expensive to make, but are better able to withstand abuse.
They have traditionally bee

a more rugged product which costs up to two and a half times more than a lead acid battery with the same capacity. As such, they are used extensively early 1970s get heavy on main- in the Middle East where there tenance. Those units had quite are extremes of climate and making use of surplus heat antiqualed control systems. The maintenance may not be very thermal cycling involved is good. In western Europe, they quite severe though the number have about a quarter of the generator set in converting the

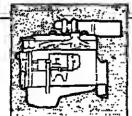
REMEMBER. WHEN YOU DEPEND ON A **GENSET** YOUR GEN SET DEPENDS ON IT'S POWER.

In today's climate standby power makes good business sense. But the power of a standby generator is only as reliable as the power of its diesel. Be it an act of man or an act of God, when the lights go out that diesel must

Even after months of remaining idle.

That's the level of confidence you know you can place in a Volvo diesel.

Volvo are world leaders in diesel technology. Volvo Penta design and build these diesels specifically for generator set applications (75 to 300 kVA). Each shares the same high standards of performance and fuel

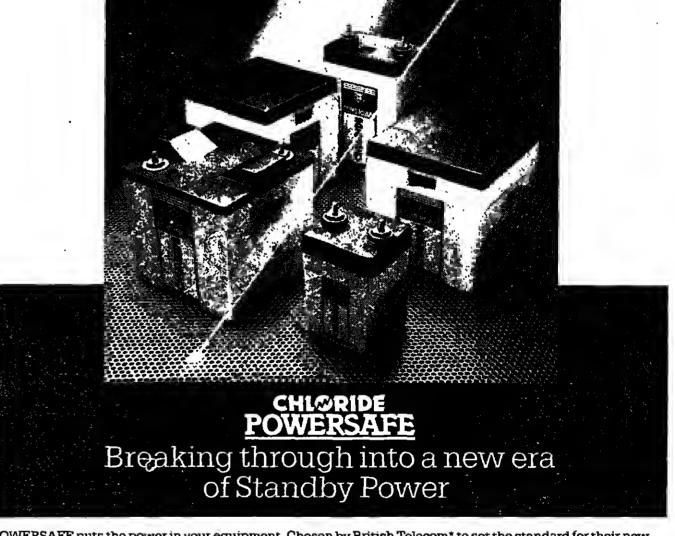


efficiency. Each achieves exceptionally low noise and smoke entission levels. All have legendary Volvo reliability.

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And behind each diesel lies the confidence of the Volvo Penta service dealer network. Factory trained engineers who will regularly service and maintain your generator set diesel. So it's ready for when crisis strikes. The reassurance of Volvo power is available now. Ex stock from Volvo Penta Uk. Don't risk anything less.

VOLVO PERTA UN ERLITED, INBUSTRIAL DIEGRE DIVISION, OTTERGROOL MAN MATT OF O, HEATS WIDE BRICE TELEF ACHTE TREE STORE TELEF CONTRE LA CONTRE



POWERSAFE puts the power in your equipment. Chosen by British Telecom* to set the standard for their new Power Equipment Rack, POWERSAFE is now being used by leading equipment manufacturers world wide. POWERSAFE is designed to meet the exacting demands of systems engineers and specifying authorities. *B.T Certificate No. B.C.91

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POWERSAFE batteries utilise gas recombining technology in which the overcharge reaction is electrochemically controlled. Unlike conventional cells, which when fully charged, revert to gassing, causing water to be lost, POWERSAFE cells control the overcharge reaction by careful balance of the active

Systems Compatible - No topping up, leakproof, minimal gassing, compatible with existing industry standards, charge Cost Effective - Maintenance free and space saving.
POWERSAFE has up to twice the power of traditional lead acid. and nickel cadmium batteries and eliminates the need for costly

constituents and the incorporation of a specially formulated

battery tooms, ventilation systems, husbars and cabling. Long Life - Proved design. POWERSAFE is already life tested to 10 years under arduous environmental conditions which include shock, vibration and thermal resistance. Easy to Install - Supplied filled and charged with lifting handles, threaded rerminals, connectors and insulated shrouds, all in easy to handle sizes.

High Rate - Low internal resistance means extra high rate performance. With stands its own short circuit current

Safe - New standards of battery safety. No acid leaks, self sealing salety valve, flame retardent ABS case and lid, high integrity pillar and fid seals for safe, reliable duty.

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Now available in sizes which are easy to handle and install. From 48Ah to 256Ah (3 hour rate)

~APPLICATIONS-

18

How standby systems operate

MORE THAN 10.000 breaks a year occur in the UK's mains power supply, not counting cuts due to industrial action. Though they tend to be relatively short interruptions, they can be just as critical as prolonged breaks.

Many users of electricity demand absolute continuity—
a failore for as long as the
blink of an eye could be disastrous. Other users can tolerate very short breaks of a fraction of a second and most ean tolerate breaks of only a few aecouds

The need for a continuous supply of electricity, in varying degrees, ranges from the control of hazardons processes and instrumentation and con-trol in oil refineries, to data transmission systems, telecom-munications, broadcasting and

Transport is another area where high-integrity loads are required, for instance, the

lighting and ventilation of long tunnels, radar, air and land traffic control systems and trame control systems and airport landing approach systems. In bospitals, lives literally depend on a constant electricity supply.

A no-break, or univier-rupted power supply (UPS) rupted power supply (UPS) system stores energy to bridge the gap between failure of the public supply and the availability of an enginedriven generator which normally requires some 10 seconds to supply the load. UPS systems also continuously condition the AC supply from condition the AC supply from the mains or generator, making sure it meets the load's voltage and frequency

requirements.

Energy storage is provided either by a rotating flywheel or a large rechargeable battery. The cholee of system will depend on technical and commercial considerations. With elther system, a standby generator is required, of

units are in the right place at the right time. All built

POWER GENERATION & WATER TREATMENT SPECIALISTS & &

to the customer's standards.

In the customer's standards,
send experience gained enables Elco to offer a comprehensive range of
sets that meet all safety, performance, reliability and cost parameters,
by an international network of advisory and service centres, Elco have
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If we can be of service, we would like to meet you.

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ico Power Plant Limited, Enterprise House, Bishopdyke Road,

Sherburn in Elmet, LEEDS LS25 6.1A, England. Telephone: South Millford (0977) 684774 Telex: 557619 ELPOWA G

larger capacity than the no-break plant.

A flywbecl or battery is also

A flywbeel or battery is also used to store energy in a abort-break system. A short break (not exceeding a second) occurs from the time when the public supply falls and the load is picked up by the short-break plant. The advantage of this system over no-break plant is purely cost but it is adequate for a number of purposes.

Muitiple standby systema which use straightforward engine-driven standby generators involve a break in supply of 10 seconds or more while the generator revs up to full load. Most situations require generators to start, run and stop automatically should the public mains supply fail,

ply fail.

Antomatic plaut monitors

the mains supply not only to see if it is present but to check its quality. It is often fitted with a complete manual

override control system should the automatic facility fail Mannally controlled generators may then be used to supply the balance of standby power requirements for nou-

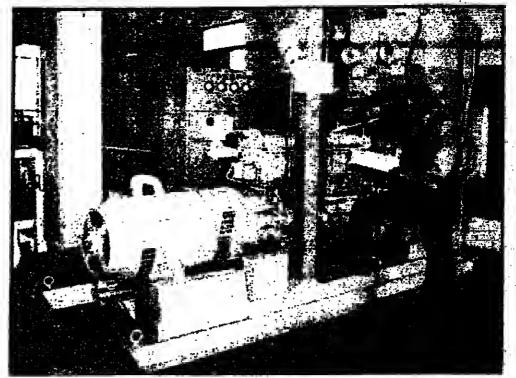
in some circumstances, users prefer to supply the load by running the generators in parallel with further, normally stationary reserve ply as a standby. They may do this during certain oper-ational periods when a shortterm loss of supply cannot be tolerated.

Motual standby systems are usually used when no public supply is available, such as remote repeater stations or lightbouses. The installation consists of two or more en-gine driven generators, one or more of which is supplying the load continuously.

A high proportion of diesel generating sets now have pro-vision for parallel operation. The incoming machine is syn-chronised and connected to those already running. The load is apportioned between the sets as the load varies.

Various types of control systems automatically moui-tor the service load, and start up and sbut down sets as well as carry out synchronis-ing and load sharing without the need for operator control. Soch schemes are expensive, bowever, and not always justified; manualty operated par-allel running systems are still much more common.

The Association of British The Association of British Generating Set Manufacturers (ABGSM) Code of Practice TM3 gives guidance on this and other aspects of concern to designers, installers and users of generator sets. The association's nine members, though forming only eight per cent of the UK industry, account for 50 per cent of UK prodoction.



A fully-actomatic Hawker Siddeley standby set at a British Telecom installation

Public sector work is providing much of the demand

Generator sales rate slows

THE GENERATOR SET industry has to go back 10 years to find a growth market for stand-by sets. Then it was unusual to have a standby set on site but during the 1970s, both public and private sector organisations substantially increased their standby capacity.
In the public sector, for example, standards for standby power were drawn up and those requirements had been met by the end of the last decade. DHSS standards, for instance, stipulste that hospitals should emselves be able to meet twothirds of their power require-

Now, the market for standby generator sets is largely provided by new works in the public sector and upgrading of existing standby facilities. In the private sector, the growth of the electronic office and the returbishment of office buildings with air conditioning and computer suites has also given an impetus to generator set manufacturers.

Over the past 10 years, with modernisation the market for medium-sized standby sets has increased by a factor of three, according to some industry estimates due largely to an increase in load requirements. But the rate of increase in the last five years appears to have

"The way central govern-ment buya its standby plant has ment buya its standoy plant has also had an impact on the industry," explained Mr Stephen Theunissen, managing director of Auto Diesels. "Three-year contracts cover a range of sets up to 500 kw, Special jobs above that come under tender. Above 500 kw consultants set their own standards and specifications. With privatisation of consultancy, there is a tendency for uniformity to disappear."

Banks

Uniformity of generator set design and configuration bas similarly decreased in tha export market. Auto Diesels, for instance is now selling quita sophisticated standby systems for banks and telecommunication consists of two or three it." tions in Lagos, Nigeria. It is sets together, conventional H also providing large and comelectro-mechanical control sysplex systems with quietening tems based on relay logic
equipment to Gulf countries, provide an economic answer.
"Some parts of the Middia "For more than three sets East are becoming like the and where the higher flexibility UK market in the level of of operation is required, the sophistication demanded." Mr programmable logic controller Theunissen says.

Developments in micro-processor controls are making themselves felt in the generator set industry, as elsewbere.
"When selecting standby diesel



Total continuity of power supply is critical for emergency services such as fire stations, which have to maintain constant contact with communications centres. This system consists of a generating set and an uninterruptible power supply. If the mains supply fails or deteriorates, the UPS steps in and supplies power from its bank of Planté batteries for np to three minntes. At the same time, the diesel engine start sequence is automatically initiated. The UPS switches off when the voltage and frequency of the standby set are np to normal values.

operating at 1,000rpm or less, or multiple installations using smaller generating sets up to rating running at I 500 rpm.

Small engines are generally cheaper in terms of £/kw cost, when related to the basic generating set, hecause production levels for small eogines are normally high. There is an increase in complexity and cost of the supporting control system, however. If the installa-

can be the answer," according to micro Mr Theunissen.

making The high cost of using PLCs generator relative to conventional relays

is offset by savings in running complexity and the ability to generating systems of a high change the operating logic with-output—say one megawatt and out changing the bardware.

above—specifiers now have a Even further reliability can be choice," Mr Theunissen explains. "They can select larga geoerating set and extra

"UK diesel generator set manufacturers now see themselves increasingly as electrical engineers. Some manufacturers have been slow to react to these changes in the market and are still selling simple sets. By diversifying into electrical engineering, you can make money even in hard times," Mr Theunissen helieves.

"The customer can now asl for anything he likes and find a manufacturer willing to make

Hawker-Siddeley. Power Plant, which manufactures sets in the smaller end of the range, takes a slightly different approach. The bulk of its business is for sets rated 5-50 kVa. although its range does extend to 350 kVa units. Mr Alec Hurley, the company's international manager, says the UK privata sector has very little influence on the market for standby sets.

"In the past, when the worst has happeoed, we bave not had eoough stock so companies have had to go elsewhere to buy geogrators made in a backyard and sold as standby units. are now building a range of standard items so we can draw from stock when demand is high. Other manufacturers now

devote virtually their entire production for the UK market to the electronics sector, providing atandby for large computer or microprocessor-based applications. Auto Diesels' design and production techniques have been geared to that market. The company has a capital expenditure programme of £220,000. £180,000 of that is computer-based, in-cluding £150,000 spent on CAD systems and a programmable sheet metal worker.

Synchronise

One order for which Auto Diesels is using such techniques is a large project designed to protect the computer centre of an international bank from unreliable mains supply. A control sulte bas been custom built so that on mains failure, three 1,000 kVa generating sets will antomatically synchronise and thereafter be capable of a combined out-

put of up to 3 mVa.

Telecommunications is another example of where the generator set ludustry is responding to the need for applications-based systems. It is also a provide the property of the second of the seco is also a growth area both in the UK and oversess, with many such projects funded by aid ageocies,

tions systems use many repeater stations to join together long-distance communications links. Invariably, these systems cross over large sections of remote territory. Installation in such remote areas poses problems since the necessary equipment, together with all building and installation materials, bas to be transported to sites over difficult terrain. Engineers then have to erect and commission the power plant in far from ideal conditions.

Some generator set manu-facturers now offer complete factory-assembled and tested integrated power plant housed in containers. One example is Hawker Siddeley Power Plant's Telecompac, an integrated power source providing AC or DC/AC power, with dual diesel generating sets incorporating two units providing continuous power cycling over seven days power cycling over seven days. Dawson Keith is an example

of a manufacturer which has decided to concentrate its marketing effort on UK sales. The company exports some 50 per cent of its production, whereas tha figure for companies such as Dale Electrics is between 70 and 80 per cent. T and R Generators and Newage Engineers export more than 90 per cent of their production.

"The home market is a very secure one," says Dawson Keith's sales director, Mr Bob Wheadon, "and we don't have any of the problems faced in the export business." The company is the sole supplier to the Department of the Environ-Agency of all generator sets above 100 kw, 20 per cent of its production.

Signalling

Another 10 per cent of its production is used by manufac-turers of UPS systems, Chloride Power Electronics, for example, recently placed a large order with Dawson Keith to support its UPS systems being supplied to GCC Signals for railway signalling systems in the Middle East.

standby. Power requirements dictate that a set of, say, 100 kVa installed 10 years ago be replaced by a 200 kVa set. He believes that the im-

portanca of microprocessors for generators is overplayed. Most standby is provided by a single unit. Sets running in parallel are more the exception than the rule. Some mannfacturers are trying to sell sophisticated control systems overseas, for example. They have proved to be quite unreliable, and you cannot afford that in a standby system."

For large standby require-ments, banks of small, microor-controlled units offer one solution. turbines provide another alternative to the single larger dlesel set, however. Mr Mervyn Leah of GEC Rolls-Royce (Power Generation) Royce (Power Generation) points out that gas turbines are not meant to compete against small individual diesel sets for standby applications. GEC Rolls-Royce's range atarts at 12 Mw and extends to

69.2 Mw. At the smaller end of the range, from start, either manual or automatic, to full load takes between two and three minutes.

"The customer likes to bave the capability to manual start because be may want to use the set for peak lopping, (cut-ting mains electricity requirement at peak times), for example. Gas turbines may also be controlled from a central plant control room. Where electric utilities bave standby gas sets, they are operated from a regional grid control and may often be unmanned."

GEC Rolls-Royce and John Brown Engineering are the only two UK companies making gas turbines in this size range. Another GEC company, Ruston, makes gas turbines in the range

Standby batteries compared TELECOMMUNICATIONS 50v nominal battery supplying 2kw for one hour to ******************* Weight COMPUTER STANDBY 360v nominal battery supplying 90kw for 10 minutes to 324v Flate plate Plante Weight ENGINE STARTING 24v nominal battery supplying 700a for one minute to 12v at 25°C Sealed lead Nickel Flate plate

World market for batteries still growing

by power batteries is growing in real terms at a rate of between 4 and 5 per cent annually, according to UK and U.S. market research. This growth is based on the expansion of telecommunications networks an increased demand for works, an increased demand for uninterruptible power supplies (UPS) and continued investment by public utilities.

Total production of gases and sulphuric acid fumes, and sulphuric acid fumes acid fumes.

of standby batteries in Western Europe in 1983 was approxi-mately £250m by value with the Further projections show con-tinued modest growth for

nickel cadmium.

Mr Alan Rowlett, marketing

director of Hawker-Siddeley group's Tungstone Batteries' industrial division estimates that lead acid batteries now occupy 75 per cent of the UK stationary standby market, with nickel cadmium taking 25 per A further 10 per cent is going to replace existing UK refinement of gas recombining standby plant. Mr Wheadon believes tha UK market for diesal sets is almost woolly acid batteries, he believes. In conventional lead acid batteries, gases generated dur-

a reduction in the water content of the electrolyta and the need for periodic topping up with water. The key to lead acid battery can now be sealed for life at the factory.

The development of sealed,

maintenance-free batteries provides a series of benefits to the user, says Mr David Millar, head of planning for the Chloride Group. "Everything has to be looked at occasionally, but there is no practical maintenance in-volved such as topping up. Various benefits follow from

that mainlenance, there is no need for space ebove the battery for someone to get in there with his water bottle and bis tube. So you can now have different configurations.

(UPS) and continued investment by public utilities.

Total production of all types of standby batteries in Western Europe in 1983 was approximately £250m by value with the fastest-growing mately £250m by value with the fastest-growing material protection for electrical equipment or to place the fastest-growing material protection for electrical equipment or to place the fastest-growing material protection for electrical equipment or to place the fastest-growing material protection for electrical equipment or to place the statement of the place the standard protection for electrical equipment or to place the statement of the place that the standard protection for electrical equipment or to place the statement of the place that the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the statement of the place that the standard protection for electrical equipment or to place the statement of the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the standard protection for electrical equipment or to place the

UK accounting for 20 per cent. batteries in Europe and pos-Further projections show con-tinued modest growth for says. He believes UPS systems the fastest-growing market for slandby power batteries.

Lead acid batteries, in particular, are likely to increase their share of the standby market, generally provide 10-15 minutes standby for standby generators standby for carry out an expense of orderly shutdown on the equipment load.

Bulky

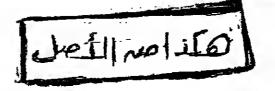
Tungstone has supplied one major UPS manufacturer with batterles for a number of years. "Five years ago, the company used a high-performanca Plante battery." Mr Rowlett says. "They had a long life but were expen-sive and bulky. As the tima element required of UPS systems shortened, the company ing charging are released to the atmosphere through vents in the battery tid. This results in However, the battery soon became almost as expensive as the electronics in the UPS system. UPS manufacturers are now tending towards sealed lead acid recombination technology is the recombination of virtually all as 440V. We see the same trend throughout the industrialised world.

"The flat voltage characteris-tics of sealed lead acid batteries permit electronic equipment to be designed and to operate within a very close "voltage window. It is the large variation in voltage during discharge which electronic equipment doesn't like." The maintenance-free aspect

CONTINUED ON PAGE 3







مكذاصر الأعل



Fail-safe back-up maintaining power to smaller computers

Vital plant goes electronic

dire emergency. Flood, tempest, and strikes are the most com monly quoted examples.

It is a fact of modern, hightechnology life, however, that vital processes can falter or pack up completely even when such speciacular exigencies do

" In a large refinery or chemical works, even it power is not interrupted, it is vital to ensure the integrity of the control system, comments Mr Richard Tonge, dissolar of Honeywell Control Systems, process control

division.

In the past control has been by discrete instrumentation, so should one Roop dail, the rest of the process cauries on, provided power is there. Process controls are now much more integrated.

integrated.

"Ten years ago, too, most control systems were pneumaticising large compressors, so that even if the compressors failed. there was enough air in the system to be able to shut down the plant safely. Controls are now electronic." Mr Tonge

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Super air ranker fe

that Plate &

Honeywell builds redundancy into its process control systems so that should the busic controller fail, a reserve controller automatically takes over without feeling the bump.

"Neventheless, over the years, the central control room-

have been reduced. Systems are load rating in a sin designed, therefore, for a grad- are not uncommon." ual degradation, to that in the UPS systems are normally accommodated in the computer event of failures there will be used as on-line power supplies, room. Emerson's system uses a step-by-step closure. Having continuously conditioning the a static inverter. spent a tot of money on a AC supply to the load protect.

spent a tot of money on a AC supply to the load protect.

sophisticated chutdown system, ing it from any short-term static inverter UPS system is cargo control. industry needs to ensure that transients in the public AC the rotary UPS. Some systems

Holec has the system is ready to operate. supply. They have the added Uninterrupted power from one benefit of some sort of stored source or another is with for energy to sustain electrical any orderly shutdown," Mr power during mains power cuts.

(UPS) systems using static a break, when the mains bas so-called Uniblock. When the inverters—for converting from failed.

only time standby power will The main generating set markets - 1983 be called on is in the case of

	UK .	u.a.	Japant	West	Franca	(Jan- Nov)	Total
Saudi Arabia	23,182	32.212	25,646	17,085	5,998	9,832	123,955
Iran	20.844	70	11.842	30,263	10	642	63,671
Nigeria	21,088		10,233	3.987	4,946	8,365	50,794
Algeria	923		31,896		11,450	1.685	48,378
Iraq	9.806	855	11.436			_	40,332
Indonesia	571		13,959		6,409	_	29,343
India	2.716	1.474	24,308		306	-	29,141
U.S	906	_,	26,302		157		27,605
Egypt	3.110	5,263	7,669	3,532			21,170
South Korea.	4	6,904	11,775		_		19,806

turers of static inverter UPSs.
"As the mini and micro com-

use a fiswheel to store energy,

so that when there is an inter-

The heart of the UPS system

devised by the German group Anton Pillar is a combined motor alternator with the wind-

ing of both motor and alter-

nator on the aame stator, the

load over it.

switching are generally recommended as support for indirectly from the mains is bealthy, the static inverter is powered indirectly from the mains. When the main lys falled the static inverter draws its power from with time will become even smaller," says Mr Tonge.

mended as support for Honeywell controls. "Power requirements are small, and with time will become even smaller," says Mr Tonge.

"There is also a trend towards distributed computer systems, for example, with computer systems of a static switch."

Emerson Industrial Controls is one of the principal manufacturers of static inverter UPSs.

Solid state

Nowadays, by far the largest proportion of uninterruptible power supplies installed are alitroller fail, a reserve controller electronic," says Mr Michael automatically takes over with out feeling the bump.

"Nevertheless, over the "They use various semi-years, the central control room in a large industrial plant has nologies to generate the required AC power. Solid-state required AC power. Solid-state power supplies of up to 180 kVA have been reduced. Systems are power supplies of up to 180 kVA load rating in a single cubicle

Tonge says.

Security is another area in the event of a power cut," where an uninterrupted power supply is vital as more and more security systems are from a static inverter when the moving towards electronic monipublic AC supply is healthy, and receives its AC power from Uninterrupted power supply the same static inverter, without

to the motor windings, a rotat-ing magnetic field is produced. This rotating field will turn the rotor of the system.

'More than 90 per cent of all breaks or losses in the mains supply last less than 100 milli-seconds," points out Mr Phillip Fryer of Anton Pillar. "These are catered for by the ride through of the Uniblock machine, without the need of the battery supply. The Uni-block is designed to carry out all voltage control and isolation for the system. It uses no brush gear and simple bearings with an estimated lifetime of between 70,000 and 100,000 bours.

"As a secondary protection. the bearings and windings of the machine to ensure that should maintenance fail, or should the change time of the bearings be exceeded, machine will fail safe."

One of its systems was recently supplied to British Telecom International for Aerial 5 at Goonhilly Downs satellite earth station. The aerial pro-vides access to the Marecs A satellite operated by the International Maritime Organisation puter have become more power-ful, they are gradually taking on many of the operations carried out by large mainframe to provide ship-to-shore com-munications in the Atlantic. The local mains supply is subject to fluctuations and interruptions computers," says Mr Jeremy Stagg, the company's manager, "Therefore, a need has arisen

Rotary

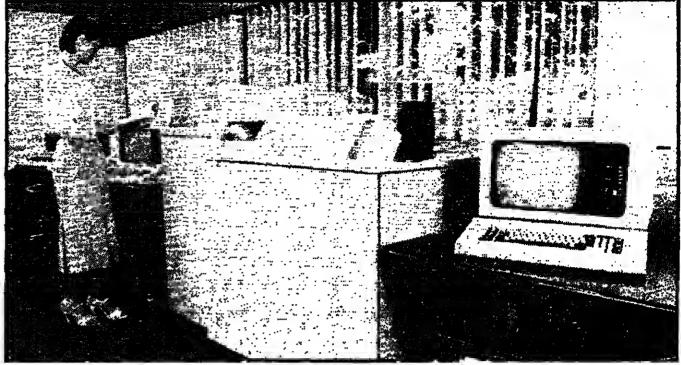
for data security by main-taining power to the smaller computer at all times." Emerson has recently developed A back-up power system supplied recently to British Airways for its new computer a single-phase UPS system for computers in the 3 kVA to centre is another example of a rotary UPS. BA's computer 10 kVA range. It has been designed as a perpheral, to be accommodated in the computer centre comprises six computers with on-line terminals, working seven days a week round-the-clock to bandle international and domestic passenger reserva tions, departures, and flight and

Holec has installed five Holec/Heemaf rotary no-breat sets, connected in parallel for ruption or fluctuation in the mains supply, the stored energy in the flywbeel will carry the out of service for maintenance a full load is maintained by the remaining four. These 450 kVA diesel type, no-break sets were part of a power supply order which included three standb generators, a main distribution switchboard and a fuel storage and automatic transfer system

This parallel connected type system is available in diesel and battery versions. It filters and stabilises the main supply, as well as taking over instantaneously as a short-term, emergeocy source of energy should the mains power fail.

Sizes of the sets range from 20-150 kVA for battery fed units and 100-150 kVA for diesel which has a flywbeel to store energy driven units. For 60 Hz applications, the maximum unit size is 400 kVA. By combining individual sets in parallel, ratings up to 2,500 kVA can be achieved. Output frequeocy and voltage deviations are within +/- 1 per cent of 50 Hz or

The emergency source of th UPS is connected in parallel with the mains, and a blocking filter prevents power-line dis-turbance reaching the load from the mains. The rotating cult currents of ten times the full load capacity, to operate the necessary protection should a fault occur in one of the load



The new generation of UPS systems have been designed to sit alongside computers, to protect them from any interruption or fluctuation in the mains supply

Only generating sets from these manufacturers have the

ABGSM Swarantee of Work

Reliability is the key to any generating set installation - and it shows in design parameters, build procedures, testing and in the commercial viability of the manufacturer. That's where members of the Association of British Generating Set Manufacturers come

Every installation is supported by the ABGSM 'Guarantee of Work' Scheme, The

Association enarantees to complete the installation should a member company go into default before the job is completed.

it's a scheme that underwrites the strongest companies in the British generating set industry - and the wisest customers

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Dale Electric of Great Britain Ltd. **Electricity Buildings** Filey, N Yorkshire YO14 9PJ Tel: 0723 514141 Telex: 52163

Dawson Keith Ltd. Deelcay House Brockhampton Lane Havant, Hants PO9 1QH Tel: 0705 474122 Telex: 86491

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Batteries market still growing

CONTINUED FROM PAGE 2-

makes it particularly applicable also for remote applictions such as telecommunications repeater as telecommunications repeater stations or microwave links. "Before the advent of sealed lead acid batteries," suggests Mr. Miliar, "such remote sites would have either diesel generators or batteries with excess electrolyte. These would give more scope for bolling off the water content and so they would need refilling less frequently. Nevertheless, they would require more frequent maintenance than the new genera-

electrolyte. These would give more scope for boiling off the water content and so they would need resiling less frequently. Nevertheless; they would require more frequent maintenance than the new generation."

Now the remote station can be run on a diagnostic system of sealed lead acid batteries out only when something actually goes wrong. Remote diagnostics are now used more for microwave repeater stations but for telephone switching offices in suburbs are being placed underground with their pattern back charge rates in excess of one success of one success of the succe ground with their battery backup as there is no need for special ventilation with sealed

whereas the ordinary charger acased units to provide a more feeds in electricity to the battery without taking information Geoffrey May of Tungstone from the battery, the microprocessor charger takes informative the Ath ERA Technology

tion from it to help adjust the Battery Seminar being held in and electronic systems to be come more complex and integration.

"Consideration of economic grated into more extensive

This static mainterruptible power supply is part of a large emergency power system for Mobil's Beryl "B" North See platform. Such control circuitry is typical of modern eletronic power

supply systems

"Most telephone exchanges traditionally have had a special room with rows of batteries for standby requirements," points out Mr Michael Mayer of the long to the standby requirements of the long to t "Most telephone exchanges traditionally have had a special room with rows of batteries for standby requirements," points out Mr Michael Mayer of the Lead Development Association.
"With the development of sealed lead acid batteries, there is now a marked movement to decentralise the power supply and to place it in the rack with the electronics it is supporting.

The lead of the power supply and to place it in the rack with the electronics it is supporting.

The lead of the power supply and to place it in the rack with the electronics it is supporting.

The lead of the power supply and to place it in the rack with the development of the power supply and to place it in the rack with the product requires a product with greater durability either durability either

charge rates in excess of one hour. Then cost comparisons between sealed lead acid batlead acid batteries teries and the more traditional type of lead acid battery bechargers can constantly evaluate come similar. But there are still the health of the battery, advantages in the ability of whereas the ordinary charger agaled units to provide a more feeds in electricity to the bat-compact installation, says Dr

tery engineer for Saft (UK), sees a trend away from tradi-tional lead acid batteries to-wards nickel cadmium, particularly for starting standby generators and for emergency lighting. He acknowledges that sealed lead acid batteries are a major advance, particularly for major advance, particularly for large industrial applications, but for smaller applications, such as emergency lighting, nickel cadmium cells "generally give better performance."

Nickel cadmium batteries also

sulted in the development of a sealed nickel cadmium cell for self-contained emergency lighting installations. Saft has recently developed

nickel cadmium vented cell using advanced aircraft battery plate techniques. The key to the new development is the plate combination: the use of a sintered positive plate and a pocket negative plate Such hybrid cells may tend

to become more important for higher rate applications, according to Dr May. The traditional pocket plate nickel cad-mium cells will continue to be used where mechanical ruggedness, abuse resistance, good cyclic characteristics and ex-tended life in floating service

"sealed load acid cells are January 1985. Details from likely to find increasingly Terri Ecclesione, seminar broader application with the organiser, ERA Technology. continuing trend for electrical Telephone: Leatherhead 37:2151.

manager of power systems, be lieves that as computers are increasingly linked into network

be sensible to provide battery back-up for one hour or more where no bandy power socket was available," Mr Gilbert says. Computer requirements are likely to fall with developments in CMOS chips. So lithlum batteries will offer a reasonable standby power source within two years, even for larger com-

cerned about engineering content and more about the price.

are required.

"However," says Dr May, hibition, London, Tuesday, 29

STAND-BY INVERTERS FOR EMERGENCY POWER

12V or 24V (car battery) to 240V at 50 Hz Units available: 70 watts to 400 watts output

Details from:

S.A.C. (Electronic Products) Limited Osmaston Works, Osmaston Road Derby DE3 8NJ Tel: 48533

it will be impracticable for all the stations in the network to be covered by standby batteries. Instead, batteries charged from have their unique characteris-tics. Mr Reg Judson, chief bat-

the mains may went by protect critical nodes.

There is also an increasing number of desktop computers around or less. "It would be a superpose to the second or less."

Mr David Millar believes the customer is changing bls per-ceptions of value for money. Recent work at Saft has re-With sophisticated electronics, power requirements will fall, leading to smaller batteries; as batteries are built into equipment, integrated packages will be provided. If batteries get smaller, product ranges will be rationalised. The battery will become a commodity product, made in higher volumes and the customer will be less con-

> "Battery life required is now much less. Most computers are written down after five years, so you don't lovest in a 20-year banery to protect a five-year-life product. Batteries will use thinner plates, so the price differential between five-year and 20-year batteries will increase."

* 4th Battery Seminar and Ex-

CRENDON **VERSATILE STRUCTURES**

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£15m work for Moss

WILLIAM MOSS CONSTRUC-TION has been awarded con-tracts worth more than £15m, including an office block in Stanmore for the Automobile Association and major retail developments in Witney, Melton

Mowbray and Nottingham.

Work has started on the offices for the AA, on the Broadoffices for the AA, of the Broadwag in Stanmore, in a contract
worth just over £2m. The
project includes shop units and
a multi-slorey car park. In
Melion Mowhray, the group is
huilding Phase II of the Bell
Centre Development for the
Leivestershire Co-operative Leicestershire Co-operative The largest, just under £10m, Society. The scheme, worth is for Cementation Caoada to £1.25m, comprises reconstruction of the Corn Exchange 8.4 metre diameter ventilation hording, together with a further 21 retail units. Moss is already working on Phase I of the centre which involves retaining the existing tacade of the Old Bell Hutel.

For Raglan Property Trust, Moss is building a supermarket and to shopping units, and altering the existing Waitrose in Witney lown centre to provide six new shopping units, in a

six new shopping units, in a contract valued at £3.85m. In Nottingham, the group is carrying out construction of the North End Fond Court at the Victoria Centre in a £2.2m contract for Capital and Counties. Other major contracts include construction of staff accommodation at Stocken Hall Young Offenders Establishment, for the

For Esso, the group is extend-ing an engine testing laboratory at Ahingdon, for just over f750,000 and, in Church Street, NW8, flats and shops are to he built for the City of Westminster in a £500,000 contract. In Dudley, Moss is carrying out the city of the Ci alterations at the Guest Hospital for the Dudley Health Authority a contract worth more than

NORWEST HOLST CONSTRUCTION has been awarded a £1.5m contract by Smiths Industries to huld a production unit at Waterloo Road, London, comprising a two-storey office and a production building of twin waterloo Road, London, comprising a two-storey office and a production building of twin steel portal frame construction; offices are steel framed with a precast concrete plank floor, all with mass concrete plank floor, all with mass concrete foundations, the buildings are generally clad in profiled metal sheeting with the offices of the profiled metal sheeting with the profil facing brickwork to the offices. Work has started for completion in September.

BUILDING CONTRACTS

Taylor Woodrow to build

BY JOAN GRAY, CONSTRUCTION CORRESPONDENT

TAYLOR WOODROW'S Malaysian associated company, Teamwork Corporation, has won a £16.5m (47.7m ringitt) contract to build a 3t-storey office build-log and adjacent t4-storey car park in the centre of Kuala

The order has been placed by UK Realty Sdn Bhd. The development, to be known as Menara Boustead, is due for completion in October 1886.

It hrings the total value of work hooked by Teamwork Malaysia since September, 1984, to £26.3m, following a £9.8m contract for a twin office tower development for United Estate

Projects Sdn Bhd.

Two major contracts for its scheme for Southern Water at North American companies Dartford. North American companies feature in CEMENTATION civil and specialist engineering division's talest £28m round of orders.

8.4 metre diameter ventilation shati at Roger's Pass, British Columbia. The concrete-lined shaft will ventilate Canadlan Pacific's 14 km 18.6 miles! Iong Mount MacDonald tunnel, cur-rently under construction to improve rail traffic through this section of the Rockies.

lo the U.S., Cementation In the U.S., Cementation Americs is to start work shortly on a 19m In-line sewerage pumping station over 100 metres heneath Milwaukee. Because of water-saturated soils, artificial ground freezing techniques will be needed during construction of three 6 metre diameter shorts. of three 6 metre diameter shafts to the underlying limestone in which the pumping statioo will he built. The work, for Milwaukee's Metropolitan Sewerage District, is part of a Federal programme to improve water quality in the Great Lakes.

For the PSA in the UK, Cementation Construction has started work on a £2m contract at the RAC gunnery school at Lulworth, Dorset and has a further Form in meant work spread. ther f2m in recent work spread scheduled for October 1985. At throughout the UK, including a Perivale, Longley is about to strategic lodustrial site access build 65,000 sq ft of warehousing road for the Borough of South for Postel Developments. This is Teneside and a phase of the the latest phase of the Perivale River Darent improvement Industrial Park.

E. Thomas wins £12m in west

frequency charger stallon, on the old Tamar Brewery site, worth

£16m Malaysian offices

Taylor Woodrow has been IT IS the commercialism, and operating in Malaysia since the not the more fact, of surrogate

1950s and the company, which was the precursor of Teamwork. was the precursor of Teamwork, was formed in 1965.

Previous projects include housing estates, the Champion Motors' commercial vehicle assembly plant, glass and sewing machine factories.

The company has recently completed a £28.5m terminal building at Kuala Lumpur Airport and is also working on a

port and is also working on a £25m shop, office and car park development for Fima Super-

Teamwork is owned 49 per cent by Taylor Woodrow and the remainder by local trading companies.

£28m orders for Cementation

Through its main specialist eoglneering company. Cemenia tion Piling and Foundations, the division is also engaged on 14.2m of work, involving over 10 contracts around the UK. The largest, at £450.000, is for construction of 750 continuous-flight-auger piles to form the basement retaining wall and main foundations of the Tower Ramparis centre in Ipswieb.

Design and build contracts valued at £6m have heen won he JAMES LONGLEY AND CO for projects in Middlesex, Sussex and Kent. Largest is for 46,000 sq ft of centralised offices to Sevenoaks District Coursel Sevenoaks District Councilocated on the sale of the exist ing premises and municipal swimming pool. Longley was awarded the contract following a public exhibition of the alternative schemes. At Bognon alternstive schemes. At Bognor Regis, Longley is undertaking the second phase of office and production facilities for Rosemount Engineering, manufacturer of aircraft control equipment. The 46,000 sq ft two-storey property will bave a high degree of internal flexibility to accompaging layout to accommodate changing layout requirements. Completion is scheduled for October 1985. At

Cementalinn is a member of the Trafalgar House Group.

construction contracts in Devon and Corowall worth more than \$12m\$ have heed won by E. THOMAS AND CO, part of the Mowlent International construction group. Three of the contracts are for Devonport Deckner and for Devoporary and include a contracts are for Deconporary and include a contracts. Heamoor, near Penzance, for Penwith District Council worth

£1,2m. Work has started on all these projects, with completion dates extending to 1967.

Company Notices

NOTICE OF REDEMPTION

EUROPEAN COAL AND STEEL COMMUNITY (E.C.S.C.) US\$50,000,000 7%% Bonds 1974/89

The Commission of the European Communities inform herewith the Bondholders that a selection by lot for a principal amount of USS3,900,000, has been made for the redemption due 1st February, 1985 in the presence of a Notary Public at the Chase Manhettan Bank N.A., New York,

The serial numbers of the Bonds to be redeemed are set torth below in groups from one number to another number, both inclusive, except such as shall have been previously called for redemption or other-

t 7401 to 17600 28001 to 28400 31001 to 31200 38001 to 38600 41001 to 41200

Principal an Junt of Bonds purchased: USS600,000. Principal amount called for redemption; USS4,500,000.

Principal amount unamortised after 1st Fabruary, 1985: USS18,000,000.

The Bonds presented for reimbursement should have attached Coupons due 1st February, 1986 and following, and will be payable in accordance with the Terms and Conditions shown on the Bonds.

Public Notices

SAMSUNG SEMICONDUCTOR AND TELECOMMUNICATIONS CO. LTD. USD 30,000,000 FLOATING RATE NOTES DUE 1994 GUARANTEED BY

SAMSUNG ELECTRONICS COMPANY LIMITED For the six months from January 7th 1985 to July 8th 1985 the Notes will carry an interest rate of 95% per annum. The interest payable on the relevant interest payment date, July 8th, 1985, will be USO 4,865-97 per USO 100,000 note.

Agent Bank Chemical Bank

SWEDISH STATE HOLDING COMPANY (Statsföretag Aktiebolag) 91% Bonds 1975/1985 UA 20,000,000

ant to the provisions of the Fund, MOTICE 15 MERERY to 80m6holocrs that: 9 the sir-month period follow-he twelve-month cervice ending Mechaer 28, 1983 a criscoal mr of UA 15d,000 or above-se of genes, unpurchased Sed.

Oulstanding: IJA 15 995 000.

The Fiscal Agent
KREDIETBANK
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PORTUGUESE GOVERNMENT

Clubs

PUBLISHED BY THE ECRETARY OF STATE ER SECTION 7(7) OF THE MMUNICATIONS ACT 1980 On 21 December 1984 the Secretary pl State for Trade and Industry granted two licences under Section 7 of the Telecommunications Act 1984 in the Act 1 of the Man to a particular person Triose licentes came into ohect on 1 January 1985. This mode is published in accordance with section 771 of the Act in order to bring the lact that these incences have been granted to the attention of those persons for whose benefit they will enure.

resons for whose beneat they will enure.

The licences in ouestopn are:

Class Licence for letecommunication systems to provide certain to the communication of the communication systems.

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not the more fact, of surrogate motherhood that continues to arouse public anxiety about the taw's apparent madequacy to deal with a growing social problem. It has led the social ser-vices department of at least one local authority, with doubtful legality, to intervene be mak-ing a child born last week in surrogateship the subject of a place of safety order preliminary to obtaining a court order providing for the child to be

laken into care.

Apart from judicially-controlled adoption and officially authorised fostering, the law is not supportive of those win indulge in the marketing of children. In fact it frowns on the private transfer of parental rights and duties in return for payment.
At the turn of the century.

the courts declared that a con-tract helween the mother of an illegitimate child and a stranger to the child for the transfer to the latter of the rights and liabilities of the mother in respect of the child was in-Thus the mother was bound to continue to maintain her own child when the fosterparent declined to fulfil her part of the bargain to maintain financially the child which she was looking after. The modern surrogate mother would therefore not be able at law to enforce the hargain that she should be paid for child-bearing.

The law's approach, bowever, derives not from any fondness

biological parents. The history (Children couples, often as adoption — not sanctioned by parliament until 1926 — provides a classic example of as the adoption market market. provides a classic example of the most unusual, if not unparallelled failure, of legal authority up till now to game the force and direction of social The todaes of the past boar the main responsibility for this. since it was they who persion tently upheld the inationability of percutal rights, however neglectual or incapable of exercising parental danes the parents might hace proved to be. Even when legal adoption was first contemplated in the 1920s, the view was be-ing officially expressed that more people would be anxious to get rid of children by way

ion their families permanently has for exceeded children available for adontion. The trasic problem of adoption law, as with surrogate motherhood, is the checks on the power of adults to consider their own interests and desires to the exclusion of the child's welfare. With rare exceptions, no child is available for adop-tion unless i's parents voluntarile give their consent and may return to, and be mabled renounce for ever all rights in to carry on their usual it. The court may dispense with employment,"

of adoption than would be pre-pared to adopt. Reality proved the opposite: the demand from

suitable adults for children to

to carry on their usual sary, treatment to prevent un-employment," wanted pregnancies without At that time adoption and obtaining the consent of a a parental consent if the parent

as the adoption market dwindles. As with adoption,

Tour often the obsessive desires of the prospective parents neglect the effects on the child. Such an approach is natural, and has in the past been allowed in dominate. The history of the law relating to intants is instructive.

venting the destruction of the lives of infants put out to nurse for hire by their parents, it is necessary to bear in mind the obvious distinction between been brought before our comare out out for hire with the deliherate knowledge, and probably, also, with the deliberate intention that they will be sure to die very quickly; and secondly, that class of cases where the children are boun fide entrusted to the care of others, either in the daytime or by the week, that the mothers

or protectiveness of children. 12 unreasonably withholding legitimation were not legally parent of a child under 16.

but rather looks to the strict consent, but that is very much legal 724bt, and duties of the exception.

12 unreasonably withholding legitimation were not legally parent of a child under 16.

The whole emphasis of the no organised supervision of judgment mon parental rights. children boarded out or fostered. A series of acts of parliament, from the Infant late Protection Acts, starting in 1873, through to modern child welfare legislation, has the physical and psychological aspects of the process of surroprotected ehitdren against their gate motherhood need to be parents' cruelty or neglect but

> Successive reports from commillers on the subject have pointed out that legislation in relation to children, such as fustering and adoption, depends mare on the people who imple-ment it than on the written lo 1571 a report of a select committee of the House of Commons stated: "In determinword. The development of social work in the last 2 years has resulted in a much greater importance being placed on the ing on the best means of preinterests of children, but the law, particularly as reflected in court decisions, slill lags be-hind the social presures by de-

clining to seenrd ane notion of tion. rights to children. The absence of children's rights has exposed most starkly the inlicrent weakness of the Court of Appeal's decision befor the Christmas holldays in the Gillick case. There the Lurds Justices of Appeal de-clared invalid a Department of Health and Social Security circular to the medical profession indicating that doctors had a discretion whether to give contraceptive advice and, if neces-

Lagging behind society in rights for children ine while emphasis at the judgment upon parental rights and duties denied the existence of the fact that the just who consults a medical practitioner without telling her parents herself is entitled to legal rights as against her own parents, and entitled to expect medical re-spect for her choice of consuhas observed one major problem.

Normally the law has to in tervene to protect those who gical treatment that may not be for their benefit. Parents are then consulted in supply the necessary consect. Where, how-ever, the action is preventive and involves no surgery, but merely an individually desired interference with the reproducthe process, the social conse-quences of denying doctors a discretion whether to inform the patient's parents must be eame of parantount considera-

The defect in Mrs Gillick of insistence, that every product is bound to be consulted before their teerage daughters can obtain contraceptive advice and treatment, is that her stance springs not from the suctal and personal consequences flow from medical practice but from a narrow religious perpective that site is enlittled in prescribe tor rather preach! not just for her co-religionists hut also for the rest of British

Justinian

APPOINTMENTS

Executive posts at NCB (Enterprise)

Mr Anthony Hewitt has been appointed be the National Coal Board as executive director of the Industry's new 10b creation subsidiary NCB (ENTER became a member of the majo subsidiary. NCB (ENTER became a men PRISE). Mr Hewitt joined NCB board in 1974. (Coal Products) in 1980 as finance director and was also latterly a director of National Smokeless Fuels, Thomas Ness and Stavely Chemicals and an alternate director of Nypro (UK). Mr Robert Spray, who is to be the company's chief accountant, was previously deputy to the director of capital expenditure at the NCB.

Mr Peter MeMaster has been appointed director general of the ORDNANCE SURVEY in suc-cession to Mr Walter P. Smltb. when the latter relires in April.
Mr McMaster is at present director of marketing, planning and development at Ordnance Sur-

W. CANNING MATERIALS has announced the appointment of Mr W. E. I. Galloway as managing director. Mr Galloway, who was appointed acting managing director in September, 1984, was previously marketing director, heading Canoing Materials' UK

March 31, to concentrate on other interests. Mr Dean is a

Mr Dennis Hall has been appointed deputy general manager of the NATIONAL WESTMINSTER BANK premises division. He was previously thief manager of the division.

Mr Heory Fearn, secretary of Allied-Lyons, has been elected president of the INSTITUTE OF CHARTERED SECRETARIES and ADMINISTRATORS.

Mr Philip Conacher, a director of Bain Dawes in Leeds, has been appointed a director of RHAIS, the company owned intuiting by Bain Dawes and the Road Haulage Association.

Mr Joho Gordon has been appointed managing director of PROVIDENCE CAPITOL FUND MANAGERS, a new company formed within the Providence Capitoi group to launch a range of unit trusts. Mr Gordon was for many years a main board director and senior investment director of Abbey Life and was Mr P. H. Dean will be retiring involved in the creation and from the board of the RIO direction of Abbey's unit trust TINTO ZINC CORPORATION on company.

Birich Inv Tst 6 2p
BPCC 3p
1991 r339.06
Buckleys Brewery 0 8e
Burndene Invs 0 35p
Cakebread Rober 0 8p. A 0 8e
Cooper Inds 0.35p
Lidowy Frint 1 19p
Bis Group 1 5p
Esternal Inv 1 3c
Esternal Inv 1 3c
Frinter I Alberti Group 1 p
Grossener Group 3.5p

The Market of the Rate of the

Mr Edmond (Ted) Sblpway, who tounded the firm of EDMOND SHIPWAY & PART-NERS, chartered quantity surveyors, in 1963, retired as its senior partner at the end of December. He is succeeded by Mr George Elllott.

Mr Christupber Taytor, group treasurer of TARMAC, has been appointed assistant group finance director. He joined Tarmac as group treasurer in 1976 from Hill Samuel Development Finance where he had been managing director.

Mr Peter Lloyd becomes chairman and managing director of LLOYD THOMPSON tINSUR-ANCE BROKERS) with Mr John Lloyd as joint managing direc-tor. Mr Eric Thompson who retires as chairman remains on the board and continues as chairman of Lloyd Thompson,

Mr Nigel Hunter has been appointed marketing director of EDEN VALE, He joins from Birds Eye Walls where he had been marketing manager—fish since 1981. Rickey Tibble and Partners

hery as managing director in succession to Mr S. J. Twentyman Turnbult who has retired, Mr S. Bennett has been appointed deputy chairman,

TECHNICOLOR, London, has appointed Mr Ashley Hopkins, rontroller of plant and engineering, Mr Simon Baxter, controller of sales and marketing and Mr Ian Mackay, company secretary in the board of the UK company. Mr Anthony J. P. Convey has

been appointed production of the Meir Park division of STAFFORDSHIRE POTTERIES. He will be responsible for all three Kilneraft manufacturing units. He was in charge of the holloware division.

ITC and The Micro Equipment Dr Peter H. Campbell is Centre, both part of the Audio-tronic Group, have appointed a province SCOTTISH PROVIDENT MANMER Tony Fitch as managing director.

Dr Peter H. Campbell is appointed a director of SCOTTISH PROVIDENT MANMER TONY FITCH ASSETTION FUNDS from January 14.

was sales manoger,

company.

has changed its name to Mr Paul Cutler has been Mr M. G. Ware has been Mr Peter Wintgens has joined appointed Mr Robert Had-WIGHAM POLAND REINSUR.

has changed its name to Mr Paul Cutler has been Ar M. G. Ware has been appointed financial director and company secretary of KLUWER special responsibility for ex-PUBLISHING.

ANCE BRÜKERS as a director. Iter was an associate director of Wakefield Chegwin Advertise. Humburg to the Edward (Ted) Solpway. We Edward the firm of this appointed Mr Peter J. Newscard of the National Freight Consortium.

Mr Paul Coombes and Mr Archie Norman have been elected principals of McKINSEY & CO. INC., in the London office,

Mr Irvine Simpson has been appointed company secretary of THE MORGAN CRUCIBLE COM-PANY, following the retirement of Mr Adrian Davis. Mr Simpson was previously group macager-

Dr Christopher Leads has joined BRITISH PEPPER & SPICE as acchaical director. He worked previously for Bowyers, Lucas Ingredients, R.H.M., and MARLEY FLOORS' new produc-

Mr P. A. Carpenter has been appointed to the board of JOHN ville. He was general works TAINTON as sales director. He manager.

WEEK'S FINANCIAL DIARY

The following is a record of the principal business and figacolal engagements during the week. The board meetings are mainly for the purpose of considering dividends and official indications are not always available whether dividends concerned are interims or finals. The sub-divisions abown below are based mainly on last

COMPANY MEETINGS—
Diptoma. Great Eastern Hetel. Livergood Street. EC. 11 00 po Arto MEETINGS—
Barriala. G.)
Interimss
Berieley and Carlo Eastern Hall Invs
Carlo Eastern Hall

DIVIOEND & INTEREST DAYMENTS— lived Irish Banks Fits Rate Nts 1987 Allied Irish Banks Fits 587-45 Limersham Intel 2 2p 8BA Group 0 64p Beckman rA./ 3.78o British Assets Tst 3.2o

The week in parliament

WEDNESOAY Commons: Second Reading of the Shiphuiding Bill. Remaining stances of the New Towns and Urban Oevelopment Corporations Bill, and of the Mineral Workings Bill. and of the Mineral Workings Bill. Select Commisse. Employment—Subject Proposals for changes in Skillcentres, Winess The Civil Service Union (Reom 35, 430 pm)

THURSDAY
Commons. Second Reading el tha
Milk (Cessition of Production) Bill
Debate en the European Community
documents on Fishenes relating to
the certall arrangements for total
allowable catthes and quots for 1985 FRIBAY FRIDAY

Commons: Oebale on the Fourth Report from the Select Committee on the Environment on Acid Rain, House of Commons paper No. 446, and the rolovant government observations. Command 3397 The debate will arrise on a motion for the sejoumement of the House

HOUSE OF LORDS

SKOPBANK U.S.\$75,000,000 Floating Rate Capital Notes due 1994

Notice is horeby given that the rate of milerest for the period from 7th January, 1985 to 8th July, 1985 has been fixed at 91, per cant per annum.

SWISS BANK CORPORATION INTERNATIONAL LIMITED Reference Agent ed January, 1985

Scantrenic Hidgs 0 7p
Smaller Co's Int Tst 0 5p
Speciar and Jackson 2p
Uniter TV A 2.3p
Wemps Int Tis 13p
Wemps Int Tis 13p
Wemps Int Tis 0MORROW
COMOANY MEETINGS—
COMOANY MEETINGS—
Wapp Potteries Marchester
Greenhead Sireet, Burslem, Store-on7ient, 12 00

BOARD MEETINGSnterooflom Energy Tst STANDAY
MOUNTAIND & INTEREST ON YMENTSDIVIDEMO & INTEREST ON YMENTS-

and Reversionary Invs 1.25p o Intri 5 75p Seaal Land and Exploration 91 90302p to Potteries 1.9p rington (Thomasi 1 75p WEINESDAY JANUARY 8 COMOANY MEETINGS—
A and G Security Electronics,
Hortel, Manchester Street,
Greater Meetings—
Greater Meetings—
Guinness Peat
Horner Roocrtr
Johnson and Firth Brown
Mand G Qual Tat
Asscriber Street
Asscriber Street
Buspak

mputing 2.25p Belected Market 7st Ptpg Red

BIVIDEND & INTEREST DAYMENTS— Calley IBeni Construction 1p Brunning Group 2.1p. Rest Vtg 2.1p

rt and Pitt 3p

THURSDAY JANUARY 18
COMPANY MEETINGS—
Aremon Group, Lincoin House, Colney
Street, St Albans, Hertfordsbirg, 2.30
Royal Bank ol Stotland, North; Gritch
Hofel, Edinburgh, 12.00
Save and Prosper Linhed Inv Tst. 4,
Great 5t Helens, EC, 11.00
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Diploma 7.5p
Evans pt Leeds 1.375p
Geers Gross 2p
Hambros 2pp, Lim Vio 2p, Non Vig 2.1p
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This announcement appears as a matter of record only



Nederlandse Scheepshypotheekbank NV

Dfl. 35,000,000

Subordinated loan 1984 due 1990/1999 with Warrant 1984/1989 to purchase 127,290 certificates of common stock at the price of Dfl. 215 per share of Dfl. 100 par value.

Privately placed with

Balabank Nederland



الكناصم الأعل

January 26-30

BUSINESSMAN'S DIARY

UK TRADE FAIRS AND EXHIBITIONS

London International Boat Show Stationery Industry Exhibition—(0832 45411) (until January 13) STATINDEX (01-385 1200)

Earls Court January 7-10
International Amusement Trades
Exhibition (01-228 4107) Olympia
January 8-10
January 8-10
January 30-Kebruary 3
CANCAR International January 8-10 CADCAM - International - Show

(01-837 3699) NEC, Birmingham Leisure Show. (Trade: Jan 30-31) Harrogate International Toy Fair (01-226 6853). Harrogate

(01-236 6853). Harrogate
January 15-18
Which computer? Show (01-851 Show (01-855 9201); Hardware 5051)
NEC, Birmingham
January 17-20
Ideal Home Exhibition (0202 February 8-10
Constitution (0402 7838) Metropolitan Exhibition Hall.

February 10-13
International Men's and Boy's
Wear Exhibition (021 705 6707)
Olympis Brighton International Lightshow Exhibi-tion (05884 658) Olympia

OVERSEAS TRABE FAIRS

International Furniture Exhibi-January 13-16 Fashion Show (01486 8686) Rio de Janeiro

January 21-25 International Record and Music Publishing Market — MEDEM (01-499 2317). Cannes January 30-February 2

International Instrument Control. Automation - Measurement and

January 7-10.

International Hotel and Catering
Industries Trade Fair—HORECAVA (01-437 2175) Amsterdam
January 10-14

International Furniture Exhibitions (01-438 1951)

Testing Show — INSTRUMENTASIA (01-486 1951)

Singapore
January 30-February 2
The International Building
Materials and Systems Shows

(01-488 1951)

Testing Show — INSTRUMENTASIA (01-486 1951)

Singapore

January 30-February 2
The International Building
Materials and Systems Shows

(01-488 1951) (01-486 1951) Hong Kong February 4-7 Middle East Electronic Communications Show and Conference—MECOM (01-486 1951)

Bahrain

(073522 2875) Wembley Conference Centre

Cruft's Dog Show (01-493 7838)

February 8-17 International Boat Show (01-466 Helsinki 1951) Helsinki
February 20.24
International Holiday Fair and
Exhibition — FERIENMESSE
INTERNATIONAL (01-891 2606)

BUSINESS CONFERENCES

Tavistock Institute/Institute of Human Relations (Zurich): 1985 Tavistock working conference on rethinking, implementing and managing organisational change (01435 7111) Minster Loveli January 22-23

FT Conference: Pensions in 1985 February 4-8 (01-621 1355) Inter Continental Hotel, W1 January 22 The Institute of Purchasing and Supply: Basic arts of buying (0780 56777) Cumberland Hotel, W1

January 23-25 January 23-25
Management Centre Europe:
Business frauds—their prevention and detection (Brussels (92) 516 19 11) Portman Hotel, W1
January 28-30
FT Conference: Seminar on the City as a financial and trading centre (91-52) 1855

centre (01-621 1355) . Skinners' Hall, EC4 January 30-March 6
IPM: Flexibility in working timecost effective initiatives for
managers (01-946 1000).

Embassy Hotel, W2 January 30 Chatham House: Indonesia at the

start of the fourth five-year plan (01-930 2233) London, SWI

Institute of Management Consultants/Department of Engineering Production, Birmingham
University: Managing the 1980s TWP: Text Communications 1985
—A framework for business (01-243 4141) London

planning (01-584 7285) Foundation for Science and Tachnology: Seminar on technology transfer within the EEC (01-606 0421)

RSA House, London Risk Research Group: Rein-surance practice (01-236 2175) - Rensington Palace Hotel, W8 February 7-8 Brunel Institute: Organisational

design and levels of management (0895 56461)

February 14-15
Oyez/FBC: The cost and application benefits of Micro CAE (01-437 9090)

Cafe Royal, WI (01-437 9090) February 14-15 Risk Research Group: The future of Lloyd's (01-236 2175) Great Eastern Hotel, EC2 February 18-19 Open Computer Security: The International Data Security Conference 1985. (0273 672191)

Dorchester Hotel, W1
February 20-21

Formary 2021
FT Conference: The Third Automated Manufacturing Conference
—Challenges for management
(01-621 1356)
Inter Continental Hotel, WI February 26 Longman Seminars: Will draft-Longman Semining (01-242 2548)
Barbican Centre

Anyone wishing to uttend any of the above events is advised to telephone the organizers to ensure that there has been no change in the details published.

Contracts and Tenders

GENERAL PROCUREMENT NOTICE

GHANA COCOA BOARD

The Government of Ghana bas received a credit from the Special Fund (Credit Number SF-9 GH) administered by the International Development Association, towards the cost of an Export Rehabilitation Project. International competitive bids are now invited for the supply of the goods hated below.

DESCRIPTION QUANTITY 10 tonne cargo trucks 10 tonne cargo trucks with winches 10 10 Agricultural tractors with winches and trailers 3 tonne cargo trucks 5 toone cargo trucks 13 6 27000 litre fuel

This invitation to bid is open only to those suppliers who can provide goods produced in countries participating in the Spe Fund. A full list of these countries is available on request. A complete set of bidding documents may be purchased by any eligible bidder on submission of a written application and upon payment of a non-refundable see of US \$200. This see should be

onited to the following account: PMM & Co. — COCOBOD — Client Account National Westminster Bank PLC, 1 Princes Street, London BC2P 2AH SORT CODE: 56 — 00 — 01 ACCOUNT NO: 140 — 0 — 01767593

All bids must be delivered to the office of: The Acting Procurement Manager, Ghana Cocoa Board, list Floor, Cocoa House, Acers, Ghana on or before: 12.00 mixing on 6th March, 1985 Interested eligible hiddens may obtain further information and import, purchase the bidding documents at the office of:

(1) The Acting Procurement (2) Mr. L. Zurick, Manager,
Ghana Cocoa Baard,
1st Floor,
1 Puddle Dock, m ECAV SPD.

50 tonnes

The sale of bid documents will commence on 7th January 1965.

HOSPITAL MEDICAL EQUIPMENT MAINTENANCE COMPETITIVE TENDERING

desinguloks and North Hampehire Health Authority is investigating testability of placing the "in house" comprehensive maintenence of trank/Electrical Medical equipment out to tender. Organisations who in to undertake this work should write to life;

District Offices, Basingstoke District Hospital Park Prewett, Basingstoke, Hants RG24 9NB Mr N. N. McNeil, Basingstoke 473202 ext 5301

INSURANCE

Housing insurance tries to weather a claims storm

increasingly burgled.

Not only is the weather and frequent claims on their house insurance policies; often for comparatively small amounts that are not strictly covered by their insurance, such as claim-ing wear and tear as storm damage with the backing of

their builder.

The result is that insurance companies have seen under-writing losses on house insurance accounts climb steadily as claim payments and expenses rise faster than premium in-come, in spite of premiums on house buildings and house contents insurance being automatically index-linked to allow

years for insurance companies in the UK. Payments to policy-holders bare soared as houses contents insurance was contents buffeted by storms and dooded in winter, subside inio made the headlines by trebling its premiums in London and other inner city areas for other inner city areas for contents cover, with the new deteriorating social conditions rates coming into operation at affecting insurance companies, the beginning of this year. Policyholders are making more Other insurance companies also made significant incresses even if they were not so dramatic as

> taking corrective action on their bouse buildings insurance but the basic premium increases are modest in relation to the action taken on house corkents, thanks to the influence of the building societies. Premium rates are rising by a more 8; per cent from £1.50 to £1.60 per £1,000 sum insured—the insured valua of the bouse.

Commercial Union Assurance was first in the field putting up its bouse building rates to £1.60

HOUSE INSURANCE has been Most leading composite on January 1. That followed the number of claims in a year insurer. Competition between mission rates on building a nightmare in the past 10 insurers took drastic action stringeing increases made on its a third higher than in 1980 insurance companies for build-society block insurance companies for build-society block insurance companies to market the end of last year to house contents premiums on — the last time house building ing society block business is tracts could be averaging 30 per October 1, 1984. It is being followed on

on February 1 by the three have rise largest insurers in house build-inflation. ings, Sun Alilance Group, Legal & General Group and World Insurance Group, all of which have large building society con-nections. In cach case the new rate will be £1.60 per £1,000 of cover. Phoenix Assurance, now a member of Sun Alliance is putting up its rates to £1.60 on

March 1. General Accident Group and Guardian Royal Exchange Assurance have both taken the decision to increase rates to £1.60 but are still deciding on the timing. The modest increase in the

basic rates, however, is not likely to do much more than stem the tide of rising underwriting losses.

rates were increased - and to keen. cover average claim costs which have risen far faster than

It will be insufficien if this year sees a repeat of 1984 when the severe winter costs the UK insurance industry £175m in adverse weather claims and the dry summer an estimated £120m in subsidence claims. Insurance company under-

writers are seeking a 20 per cent rise—the same as in 1980 —to a basic rate of £1.80 per £1,000 sum insured, a rate con-sidered the minimum necessary to get house insurance accounts back on an even keel. Most house owners arrange

their mortgages through build-ing societies and most of those bouseholders insure their bouses through their building It will be insufficient to offset societies' block insurance the current experience of insurance arrangements even though they ance companies, which shows have freedom of choice of

extra involvement by the societies. In addition building societies

their influence to persuade the top insurance companies to restrict the premium rise. In return, the societies have agreed to renegotiate commission payments. Such a renegotiation would be necessary in any event

Commission payments re-celved by building societies for house building insurance al-ready rise each year in line with inflation because of the index-linking of premiums. It would be unfair if their commissions payments increase further this year because of the basic premium rise with no

have computerised their administration in the past few years and are containing costs in real

cent against the current 40 per cent, thus easing underwriting pressure on insurance companies, However, medium and smaller societies are generally Opposed to commission cuts and a lot of bard bargaining is still

The increase in house building rates is by no means universal. Eagle Star Holdings, now part of BAT Industries, and Norwich Union Fire Insurance are still considering their position but could follow later this year.

Prudentisi is adamant it will not increase its rates this year, possibly because its agents might revolt against two bouse insurance rate increases in a

Zurich Insuraoce is maintaining its £1 per £1,000 rate for houses not involved in flood or subsidence risk situation and £1.50 otherwise.

Notice of redemption to holders of

BEECHAM INTERNATIONAL (BERMUDA) LIMITED

81/4% Guaranteed Bonds due 1986

Unconditionally Guaranteed by BEECHAM GROUP p.l.c.

NOTICE IS HEREBY GIVEN that, pursuant to Condition 5 of the First Schedule to the Indenture dated the 3rd day of February, 1971 between Beecham International (Bermuda) Limited, Beecham Group Limited and Eagle Star Insurance Company Limited, the Bonds bearing the undernoted serial numbers have been drawn for

redemption on 1st February, 1985 ("the redemption date"), by operation of the Sinking Fund at the redemption price of 100% of the principal amount thereof, Interest on each such Bond will cease to accrue from the redemption date.

BONDS OF US\$1,000 EACH

| SEC | 1077 | 12043 | 13467 | 12045 | 12057 | 17224 | 2777 | 27245 | 27445 | 27447 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 | 2777 |

The above numbered Bonds will be redeemed at the principal office of Morgan Guaranty Trust Company of New York at 30 West Broadway, New York, New York 10015; Banque Internationale à Luxembourg S.A. at 2 Boulevard Royal, Luxembourg; Credito Italiano at Piazza Cordusio, Milan, Italy; and at the main offices of Morgan Guaranty

Trust Company of New York in London, Paris, Brussels and Frankfurt/Main, upon surrender of such Bond, for payment and cancellation, together with all interest coupons maturing subsequent to the redemption date. Coupons due 1st February, 1985 should be detached and presented for payment in the usual manner.

Dated: 7th January, 1985

By Order of **Beecham International (Bermuda) Limited**

Continued on Page 23

Armina Armon Applica Armon Applica Armon A

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Closing prices, January 4 12 Mg 15 Mg 16 Mg 16 Mg 17 Mg 18 Mg 1 Data 不出来,他们有只是不是不是不是不是不是一个,我们也只是这种人的,也不是不是不是不是不是一个,我们也是一个人,也是一个人,我们也是一个人,我们也是一个人,我们就是一个人, Bar 不然后有我们的对方不可以的可谓的心态和情况的明确的的人的现在是这种的极级的人所有的的 LE CHICAGORAGE CONTROL Seeck
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WORLD STOCK MARKETS

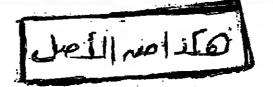
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Many of our subscribers already receive their copy of the Financial Times on the day of publication. If you live in the 1st, 2nd,7th,8th,9th,15th,16th or 17th arrondissement, Neuilly or La Défense and would like to hear more about this service, then contact:	### 299 ### 202 Credit staft Pid. 229 ### 203 Goesser	77 53 Pakheed 78 78 57.5 41.7 Philipps 56.5 70.4 66.5 Robeco 39.7 139 130.1 Rodamoo 136.6 57.4 35.3 Rollinco 35 43.9 39.6 Rorecte 43.5 169.5 136.2 Royal 9utch 175 282.5 Unilever 316.5 144 9d VMF Stork 143.5 145.5 175 VML 914.8 145.5 72.5 Wosl Utr Bank 124	WORLD V	ALUE OF

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FINANCIAL TIMES EUROPE'S BUSINESS NEWSPAPER

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WORLD VALUE OF THE DOLLAR every Friday in the Financial Times



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WORLD STOCK MARKETS

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Notice of Meeting

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Notice is hereby given that the Annual General Meeting of Members of National Australia Bank Limited will be held 🔒 at 36th floor, 500 Bourke Street. Melbourne, on Thursday, January 24, 1985, at 11,00 a.m.

Ordinary Business

- 1. To receive and consider the balance sheet and statement of profit and loss and the reports of the Directors and of the Auditor for the year ended September 30,
- 2. To elect Directors.
- 3. To transact any other business of which due notice has been given.

Special Business

To consider and, if thought fit, to pass an Ordinary Resolution to approve of an increase in remuneration paid to the Directors of the Company and to authorise the payment of remuneration to directors of National & General Insurance Company Limited who are Directors of the Company.

By order of the Board PI. Cochrane, Secretary December 13, 1984

A Member or other person entitled to vote may appoint not more than two proxies to attend and vote instead of him. Where more than one proxy is appointed, each proxy must be appointed to represent a specified proportion of the Member's voting rights. A proxy need not be a Member of the Company.

National Australia W.Bank

All the securities having been sold, this advertisement appears as a matter of record only

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Unconditionally guaranteed (on a joint and several basis) by

L.D. Nathan & Co. Limited

Woolworths (New Zealand) Limited (both incorporated with limited liability in New Zealand)

BANK GUTZWILLER, KURZ, BUNGENER (OVERSEAS) LIMITED

DAIWA EUROPE LIMITED NEDERLANDSE CREDIETBANK N.V.

HAMBROS BANK LIMITED NIPPON KANGYO KAKUMARU (EUROPE) LIMITED

BANK BRUSSEL LAMBERT N.V. LLOYDS BANK INTERNATIONAL LIMITED NOMURA INTERNATIONAL LIMITED

BANQUE PARIBAS MANUFACTURERS HANOVER LIMITED YAMAICHI INTERNATIONAL (EUROPE) LIMITED

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Shee Do. 124m: 57895	AL 203 13.0 203 4 7.7 6 13.0 203 6 7.7 6 13.0 203 6 7.7 6 13.0 203 6 13.0 203 6 13.0 203 2	25 20 4 991 5 7 7 202 30 25 4 714 21 30 33 33 29 4 14 55 70 87 56 - 23 - 23 37 18 73 11 35 22 40 04
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Reed International P.L.C. **Unsecured Loan Notes 1985**

first issued in July 1980 to electing shareholders in London & Provincial Poster Group Limited

Notice is hereby given that the annual rate of interest payable in respect of the Unsecured Loan Notes 1985 for the six months interest Period from 1 January 1985 to 30 June 1985 shall be 6.1875% per annum. The relevant Interest Payment Date will be 30 June 1985.

Any Loan Notes not previously repaid will be repaid at par on 30 June 1985.

FOREIGN BANKS IN **NEW YORK**

The Banker in the March Issue will be publishing its annual study on the expansion of New York as an international banking centre. The study will again include the full listing of every foreign banking operation—Branch, Agency, Representative Office or Subtidiary—active at the end of 1984. Location, management, staffing and atatus are detailed in full.

Banks, Financial Institutiona and Suppliers to the Banking Industry wishing to demonstrate their commitment to New York's International banking expansion by advertising in this important study

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ENTE NAZIONALE

PER L'ENERGIA ELETTRICA

(ENEL) U.S. \$100,000,000

Floating Rate Debentures due 1989

Convertible at the holders' option into

13% Fixed Rate Debentures due 1992

Guaranteed by the Republic of Italy

In accordance with the provisions of the Debentures, notice is hereby given that for the six month Interest period from 7th January, 1985 to 8th July, 1985, the Debentures will carry an loterest Rate of 91 hs per cent per annum and that the interest payable on the relevant Interest Payment Date, 8th July, 1985 against Coupon No. 6 will be U.S. \$489-76.

The Sumitomo Bank, Limited

in the first of the contract of the protection is a second of the contract of

activities to new premises.

The Marketing Director

THE BANKER 102 Clerkenwell Road, London ECIM 55A Tel: 01-251 9321 Telex: 23700

U.S. \$50.000.000

FINANCIAL FUTURES -

LONDON

THREE-MONTH EURODOLLAR Sim points of 100%

THREE-MONTH STERLING £250,000 points of 100%

TERLING £25,000 \$ par £

Close High Low
"Jerch 0.3835 — — 0.
"St, volume nil (nil)
"revious day's spen int. 113 (113)

IAPANESE YEN Y12.5m 2 per Y100 Viarch 0.3967 0.3969 0.3967 0.3981 ist. volume 2 (nil) 'revious day's open Int. 110 (115)

Close High Low March 121.30 121.75 120.60 1 June 121.40 — 1 Est. volume 155 (233) Previous day's open Int. 794 (793)

T-SE 100 INDEX 25 per full Index point

Base rates
7 day interbank
5 mth Interbank
Treasury Bili Tender
Band 1 Bilis
Band 5 Bilis
Band 5 Bilis

TOKYO

BRUSSELS One month Three month

AMSTERDAM

March 0.3176 0.3182 0.3174 0.3176 Sept St. volume 0 (34)
Previous day's open int. 174 (184)

Close High Low 90.60 90.64 90.57 90.00 90.05 83 98 83 48 83.52 89.45 89.05 83.07 89.05 88.69

March 90.60 90.64 50.57 90.56 June 90.00 90.05 83 98 89.95 89.95 89.05 89.05 89.05 89.07 89.05 89.07 March 88.69 89.05 89.07 89.05 89.07 March 88.69 89.05 89.07 89.05 89.07 Previous day's opes int. 10.116 (10.032)

100% ## 100% ## 100% ## 150 82.58 82.38 83.38 83.21 83.54 83.21 83.48 83.21 83.06 83

| 32-ds of 100; | Clase High Low Pray 106-17 108-05 105-18 105-20 104-31 - 105-02 107-31 107-10 - 107-21 107-10 - 107-21 107-10 | 107-10 - 107-11 107-10 | 107-11 1

U.S. TREASURY 80NOS 8", \$100,000 32nds of 100".

CHICAGO

March 79-11 71-00 70-10

U.S. THEARURY 80NDS (CBT) 8% 5100,000 32nde of 100%

High 70-31 70-07 69-17 68-28 68-11 67-30 67-19

High 97.82 97.31 90.82 89.39 90.08 89.93 89.93 89.93

90.64 90.05 89.52 89.09 89.72 89.38 89.01

Close High Low 1.1470 1.1550 1.1450 1.1455 7.1525 1.1440 1.1440 1.1525 1.1440

Jan. 4 chang

Unch's

Unch'

Class 70-10 69-17 68-28 68-10 67-26 67-12 67-00 66-22 66-13 66-05

U.S. TREASURY BILLS (IMM) \$1m paints of 100%

CERT. DEPO " (IMM) 51m points of 100%

89.35

Low Prev STERLING (IMM) Sa per E

WEEKLY CHANGE IN WORLD INTEREST RATES

PARIS.

MILAN One month Unch 'd. Three m

One month

Close 86-27 68-03 67-18 65-31

ints of 100% Close High 90.91 97.03 90.31 90.43

Société Financière pour les Télécommunications et l'Electronique S.A. Guaranteed Floating Rate Notes Due 1990

London—band 1 bills mature in up to 14, days, band 2 bills 15 to 33 days, and band 3 bills 34 to 63 days, Sates quoted represent Bank of England boying or selling raths with the aboney seather, in other central are generally deposit rates in the domestic encounty market and their respective changes during the week. Band 4 bills $S^4_{\rm b}$.

STET Società Finanziaria Telefonica per Azioni

In accordance with the provisions of the Notes. notice is hereby given that the rate of interest for the six months 7th January, 1985 to 8th July, 1985 has been fixed at 91% per cent per annum and that the coupon amount payable on coupon no. 10 will be U.S.\$489.76.



The Sumitomo Bank, Limited

Fiscal Agent

NATIONAL BANK OF CANADA

U.S.\$50,000,000 Floating Rate Notes due January 1991

In accordance with the provisions of the Notes notice is hereby given that for the six month Interest Period from January 7th 1985 to July 8th 1985 the Notes will carry an Interest Rate of 9.5625% per annum. The Coupon amount payable on Notes of U.S.\$5,000 will be \$241.72.

> Agent Bank FIRST CHICAGO

DANSK OLIE & NATURGAS A/S US\$100,000,000 GUARANTEED FLOATING RATE NOTES QUE APRIL 1999

In accordance with the provisions of the Notes, notice in hereby great, that in respect of the letewest Posiod from January 7, 1985, in April 9, 1985, 198, "Instrument proof"), also rate for the first Instrument Sub-penned from January 7 in Polumer 7 has been determined at 2% per advance and the amount of interest accorded as USS77-50 per USS18,080 momental amount for this Sub-penned. The total amount of interest against Coupon No. 4 or per USS10,000 nominal amount of interest against Coupon No. 4 or per USS10,000 nominal amount of interest against Coupon No. 4 or per USS10,000 nominal amount of interest against Coupon No. 4 or per USS10,000 nominal amount of Registered Mortes at respect of the interest period will be payable April 9, 1985.

January 7, 1985 THE CHASE MANUATTAN BANK H.A. LONDON, AGENT BANK.

CENTRAL BANK OF NIGERIA FLOATING RATE NOTES DUE 1986/90 TO BE ISSUED IN RESPECT OF OUTSTANDING TRADE DEBT

in accordance with the Terms and Conditions of the Notes, notice in hereby gives that in respect of the Interest Period from January 7 to April 5 1985, the Take of Lacrest has been determined at 5% % per assum. London, Jenuary 7 (985)

THE CHASE MANHATTAN SARK NA. PISCAL ACTENT

FOREIGN EXCHANGES

CURRENCIES, MONEY and CAPITAL MARKETS

Something very familiar

BY COUN MILLHAM

There is more than slight feeling of deja vu about the present situation on the foreign exchanges. The New Year has begun in the same way as 1984, with the dollar rising to record evels against other major currencies.

Firm U.S. interest rates semain a major factor keeping.

Firm U.S. interest rates remain a major factor keeping the dollar in demand, although current levels are slightly below those of 12 mooths ago, with hank prime rates at 101 per cent against 11 per cent and Federal funds in New York at about 31 per cent compared with 91 per cent. The Federal Reserve's discount rate is now 8 per cent, while in January last year it was

while in January last year it was 3- per cent. Tension in the Middle East

The area is still a hotly dis-puted one, but fear of further escalation has receded, and the market has turned its attention

also tended to support the dollar it the heginning of 1984, as the war continued between Iran and Iraq and U.S. troops remained

market has turned its attention elsewhere.

The U.S. economy is now the centre of attention, with every major and mioor statistic examined for evidence of the pace of economic with.

Expansion of the U.S. economy was very fast in the first half of last year, but in January 1984 there was little sign of this. The general view at the moment is that growth will pick up from the slow down in the second half of 1984, and a forecast of 4.3 per cent growth this year by the U.S. Department of Commerce helped

SwFr 2.6325, compared with n six-year high of SwFr 2.25 io January 1984, and is at the highest level for over two years against the Japanese yen at just above Y253.

Sterling, the French france and the Italian lira all touched record lows in terms of the dollar last week, and gold alumped to its lowest level since June 1982, touching \$299\$; at the Thursday morning fixing. A fall below \$296 will take the metal to its lowest point since mid-1979 and with the present mood in the market this cannot be

Department of Commerce helped to underpin the dollar last week. A year ago the dollar was at a 10 year high of DM 2.80, and is now at the highest for nearly 12 years of around DM 3.17. It is also at a nine-year peak agalost the Swiss franc of ahout

embroiled in the Lehanoo, POUND SPOT-FORWARD AGAINST POUND

Jan 4	Day's	Ciosa	One month	p. s.	Thme months	p.e.
u s.	1.1475-1.1570	1.1540-1.1590	0.14-0.11c pm		0.42-0.38 pm	
Canade	1.5175-1.5240	1.5220-1.5235	0.01c pm-0.06dia	-0.28	0.13 pm-par	0.1
Nothing.		4.13-4 13	14-14c pm	4.00	41-41 pm	4.3
Sala:um	72.70-73.10	72.00-73.10	3-Sc die	-0.90	3-11 die	-0.7
Onneri		15.024-15.034	31-34ore die	-2.42	5'4-6'4 die	-1.90
Iralend	1.1655-1.1695	1.1675-1.1685	0.45-0.21p dis	-5.44	1.10-1.42dla	-4.4
W. Cer.	3.634-3.66	3.65-3.66	14-14pt pm	4.51	41-41 pm	4.65
Portugal		196,60-199,10		-25.78	725-1710ds ·	-24.S
Spain	200.95-201.50	201.10-201.26	35-60c dts	-2.53	115-140 dia	-2.5
Italy	2 2321,-2.243	2.2351-2.2361	6-Stire die		19-24 dis	-3.86
Marway	10.21-10.55		23-33 ore die		63-73 dle	-2.56
	11.113-11.184				3-13 dis	-0.4
France	10.37-10.43	10.391 10.401			21-34 die	~1.2
Sweden			0.95-0 88y pm		2.91-2.78 pm	
Japan	28914-25314	2911-2921,			20's-17's pm	2.94
Au strie	25.55-25.66	25.91-25.64	D's-5'sgro pm		414-4 pm	5.44
Switz.	5.m1-2.034	5.02-2-3.03-7	13-11s pm			3.44
	Belgian rate is	tor convertible	Imnce. Financial	tranc	/3 20-/3.30.	
	Six-month forward	ard dollar 0.62	0.57c pm. 12-moi	nta 0.6	5-0.50c pm.	

OTHER CURRENCIES

Jan. 4	£	8	1	£ Note Rates
Australis Oollar. 8razil Cruzsiro. Finland Markka. Oreek Orachma. HongKong Oollar Iran Rial KuwaitDinar KOj Luxembourg Fr.	1.4140 1.4100 5.664-5.0076 7.5890-7.0305 147.10 1bo.10 107.72* 0.3529-0.3940 75.00-75.10 9.9263-2.8350 2.4330-9.4580 4.1505-4.1550 2.8320-2.537 2.8450-2.5540	1.8275.1.8855 5,168.5,184 10,0900.0,5920 127,80.150.40 7,8150.7.0180 94,30° 03,50.45,40 9,4560.9,4560 5,5825.5,6855 9,1975.2,189 2,0305.8,0410	Austrie Belgium Denmark Frence Cermany Italy Jepan Norway Portugal Spain Swoden Switzerland United States Yugoslavis	2820-2900 887-888 4.094-4.1814 10.49-10.09 195-312 136-209 10.55-10.46 5,01-5.04

EMS EUROPEAN CURRENCY UNIT RATES

	Ecu central rates	Currency emounts against East January 4	% change from central rate	% change adjusted for divergence	Divergence
Belgian Franc	44,9008	44.6730	-0.01	+0.10	±1.5428
Oantsh Krons	8,14104	7.96649	-3.14	-1.53	±1,6421
Garman D-Mark	2.24184	2,23048	-0.51	+0.10	<u>1.1463</u>
Fmach Franc	D.E7456	6.82881	-D.69	-2.08	±1.3659
Dutch Guilder	2.52695	2,51872	-0.29	+0.32	±1.5166
inish Punt	0.77569	0.714556	-1.53	-0.92	±1.6671
Itelian Lira	1403.49	1369.57	-2.39	-2.33	<u>+</u> 4,0511
Change weak o	urrancy. A	Ecu, thorafom djustment cole	positive chi	nge denotes Inencial Times	:

EXCHANGE CROSS RATES

Jan 4	Pound St'rling	U.S. Dollar	Deutsche m'k	J'panese Yan	FronchFrane	Swiss Franc	Dutch Gulid	Italian Liro	Conscia Dollar	Bolgian Fra
Pound Starking J.S. Dollar	0.866	1.155	3.555 - 5.168	. 293,0 855,1	9,093	9,632	8.078	. 2237. 1942.	1,025 1,318	. 25.06 .05,36
Deutschemark	0.274	0,318	18,52	79,89	3.026	0,829	1,128	812.0	0.417	. 19.99
Ispanese Yen 1,000	8,426	8,954		1000,	38,25	10,38	14,15	7060.	5.215	. 950.8
French Franc 10	0,822	1,034	8,279	261.4	10.	5.713	3,093	2002.	1,365	66,40
Switts Franc	0,530	0,581	1,802	96.37	5.686	1,	1,301	738.2	0,803	24,11
Outch Colider	0.242	0,280	0.886	70,79	8,708	0.752	1,844	548,2	0.552	17.71
talian Linz 1,000	0.447	0,516	1.634	130,5	4,994	1.308		1000.	0.691	38.56
Canadian Dollar	0.557	0.758	2.400	191.B	7,335	1.990	8,709	1489	2,065	47.57
Selgian Franc 100	1,369	1.080	0.003	522,7	10,22	4,148	0.647	5062,		100

(base average 1976=100).

EURC

Jan. 4	Sterling	U.S. Dollar	Canadian Dollar	Outch Culider	2wiss Franc	D-mark	French	Italian Lira	Beigian France	Yon Krons
Short term	212-9-2 1018 104	은 1, 85g 8点 8点 8点 8点 8点 8点 9点 8点	954-10 834-10 8i2-10 878-1014 (1012-1058 (512 512 513 012 513 513 513 513 519 5	2-0 34-4 45-47e : 44-47e 41)-4-2 41-41e	21z 25g 51z 55g 01z 05g 01g 55g 51t 51d 05g 01g	1012-1058 1018-1054 1012-1054 1002-1076 1074-1118 1174-1175	15-14 1558 1458 1578-2878 14-1412 1414-1458 1414-1454	11-1112 1034 11 1012-11 1058 1178 1012-11 1058 1076 1012-11 1058 1076 1012-11 1058 1078 1012-11 1058 1078 1012-11 1058 1078	0:8 8 t 183; 181; 6:4 0:1 151; 13 0:5:1 181; 123; 0:5:1 181; 123; 0:5:5:1 117; 191; 0:6:0:1 113; 191;

MONEY MARKETS -

since November 23.

on the foreign exchanges.

This led to renewed fears of higher clearing bank base leoding rates, but at the same time there was a general reluctance

formula.

The Bank of England made it clear that as far as the subtorities were concerned there was no justification for a rise in base rates, and that the weakness of the pound was not causing particular concern in official circlea. This view was encouraged by the fact that sterling was not on its own, with most other major currencies also at the lowest levels against the dollar since the introduction of floating exchange retes in 1973.

Nevertheless, the London money market was very nervous,

money market was very nervous,

FT LONDON INTERBANK FIXING

3 months	u.s.	Colleta
bid 8 5/8	į	ofter B 8:4
e months	U.B.	dollers
		:

The fixing rates are the arithmetic means, rounded to the nearest analysis and arithmetic for S10m quoted by the meriat to five reference banks at 11 am sech working day. The banks are National Westminster Bank. Benk of Tohye. Osuische Sank. Sanque National de Paris and Margan Gueranty Trust.

happy to sell as much long dated on a forecast shortage of £500m. daslers particularly narrous commercial paper as possible to There was plenty of Govern-when there is a suspicion that commercial paper as possible to the Bank of England to relieve some substantial sbortages of

day-to-day credit. Nerves were particulary strained on Thursday morning, when the pound was falling and interbank rates were climbing steadily. The Bank of England moved quickly to celm the market, with early belp of £515m

LONDON MONEY RATES

bills.
Too much long-dated commercial paper oo the market makes figures.

There was plenty of Govern-ment-backed paper available, however, and the market would interest rates might rise, but on Friday the situation was below when the authorities bought subhave probably preferred a larger when a shortage, since the Bank of stantis England managed to buy all thot bills. Was nacessary without purchasing any long dated band 4 bank reason bills. stantial oumbers of band 4 bank

The mood to the market was reasonably calm oo Friday evening, but much will depend on tomorrow's UK money supply

MONEY RATES

Jen. 4	Frankfurt	Paris	Zurich	Amerdam	Tokyo	MH4II	Grussels	. Dublin
Overnight Ons month Two months Three months Six months Lombard Intervention	2.65 0.80 0.05 5.70 a.65 5.80 2.82 5.80 0.8	101g 105g 105g 105g 105g 105g 105g 101g-105g	278-51e 416 418 416 418	034-578 834-518 834-518 518-018	6,13625 6,21875 e,28185	1578-1014 1512-1878 2014-1014	9.10 105a 107a 105a 107a 105a 107a	134-14 143-12 143-10 143-12 143-144

Discount Houses Deposit and Bill Rates Company Market Treasury Treasury Sank Bank Trade

1900	oi daboeir		geboents	Deposits	Deboerre	(Buy)	(Sell)	(Buyl	(8eih_	- (Buy)
Overnight 8 days notice 7 days or 7 days or 1 doys notice 1 wo months 1 wo months Thras months 0ix months Nins months One year	9 3 3 1 1 1 1 1 1 1 1	5 9 	85 ₄ 91 ₈ ·91 ₄ er ₄ ·95 ₈ 95 ₄ 10 101 ₈ 103 ₈ 106 ₆	6-9 : : 916-912 10 : 1014 : 1036	812 814 815 817 518-815	958 918 938	378 812 819	97.94s 97.94s 97.94s 107.101s	9 A 9 3 8 9 16 9 76 9 76 9 76 9 76 9 76 9 76 9 76	104
		ulhority .	Finance : House Deposits:	of	SDR Linked Deposits	ECU Linked Ceposits	MONEY			

	ponde negotiable	Authority	House Deposits	of [Linked Deposits	Linked Ceposits
One month	101g 101g 101g 101g 105g 105g 105g 105g 107g 105g	_	87e 104 104 109 105 105 105	8.3-8.4 8.3-8.4 8.4-8.6 8.8-8.2 6.2-9.4 9.6-6.8	713-915 712-815 815-815 839-856 813-915	956-918 956-914 956-914 956-918
ECGN Fix	ed Rete Ex	pert Finance	IV: A	rerage Re	te of inte	rest period

فكذاصم المصل

STERLING EXCHANGE RATE INDEX (Bank of England) Jan 4 72.7 Previous 72,5 72,5 72,5 72,5 72,8 72,8 72,8 72,8 £ in New York

51.1519.1.1520 51.1010.1528 0.14.0.13 pm 0.14.0.13 pm 0.44.0.41 pm 0.44 0.43 pm 0.74.0.60 pm 0.75.0.65 pm premiums and discuunta span to the U.S. dicker. in the market this cannot be ruled out.

FORWARD RATES AGAINST STERLING 0 month 1.1682 3.5728 11.2012 2.9472 286.03

	BANK OF	ENGL	AND TI	REASURY B	ILL TE	VDER
_		. Jan. 4	Dec. 81		Jan. 4	Dec. 2
38 12 36 71 90 45 51	Bills on otfer Total of opplications Total allocated Minimum accopled bid Allotment at minimum level	£579m £100m £97.71	£100m	Top Accepted rate of discount Average rate of discount Average yield Amount on offer at next tender.	9.1788s, 9.591	

* 81-day bills: 92-day bills £97.585 DOLLAR SPOT-FORWARD AGAINST DOLLAR

Jan 4	Osy's spreed	Close	One month	2. p. a.	Three menths	p
UKt	1.1475-1.1570	1.1540-1.1550	0.14-0.11c pm		5.42-0.38 pr	
Irelandt	0.9800-0.9876	D.9845-0.98\$5	0.54-0.50c pm		1.42-1 32 pr	
Coneda	1.3180-1.3209	1.3197-1.3196	D.16-0.19c dia		0.36-0.43 di	
Nethind.	8.5590-3.5795	3.5715-3.5726	0.79-0.77e pm	2.62	2.58-2.55 pr	37 2
Belgium	63.20-63.40	63.30-63.40	9-10c dis	-7.80	21-23 dia	-1
Oenmark	11.26-11.33	11.294-11.304	3-31-ore dia	-3.45	74-84 dis	-2
W. Car.	8.1970-3.1700	3.1875-3.1685	0.76-0.73pf pm	2.82	2.44-2 39 pr	n 3
Portugel	1701-1714	1704-1703	250-530c dis		700-1550de	-26
Spein	172.85-174.72	174.40-174.60	0.59-0.65g die	-4.26	170-185 die	-4
lisly	19361-1960	1941-1942	8-91-tiro dua		25-27 die	-6
Narwey	3.11-0.10 ¹ 2	2.124-9.134	34-33 ore dia		912-10 dis	-4
Fmnco	9.664-9.6912	9.69-9.6912	1.70-1.80c dia		4.40-4.70dls	
Sweden	9:01-8:037	3 024-9 024	1 80-2.30ore dis		5.85-6.35dia	
		253.05-252.75	0.51-0.47y pm		1.64-1.59 pm	
Japan	252.15-253.40				53-63 pm	1
Austria	22.16-22.261,	22,21-22.23	2.50-2 00gro pm		2 60-2 64 pr	
Swilz,	2.6140-2.6340	2,6315-2.6325	0 26-0.80c pm		premiume o	
	and ireland o				dust fuese	

Seigen rate is for convertible trance, Financial frame 63.40-63.50.

CURRENCY MOVEMENTS CURRENCY RATES Bank Special Europ's rale Drawing Currence & Rights Unit 0.019258 72.9 -17.3 4
142.2 +31.4 4
91.1 -5.5
68.7 -10.5
76.0 -5.1
190.0 +5.8
158.9 +8.4
110.1 +9.8
63.5 -18.8
40.7 -18.5
154.5 +10.7 21.7115 01.9518 11.0509 3.09524

1980-1982-100, Bank of England Index

*CS/SDR rate for Jenuery 3; 1.29241.

O-CURRENCY INTEREST RATES (Market closing rates)										
Jan. 4	Sterling	U.S. Dollar	Canadian Dollar	Outch Culider	Swiss Franc	D-mark	French (France	Italian Lira	Belgian Franc	Yon Kro
months	834 6 2 914 217-9-1 1018 1014 1016 1016	61, 836 84 84 84 84 94 84 94 84	954-10 834-10 876-1014 1012-1056	512 512 513 513 513 513 513 513 579 0 8-519	2-0 334 4 454 478 434 478 412 4 2 412 4 4	21 ₂ 25 ₆ 51 ₂ 55 ₆ 01 ₂ 55 ₆ 01 ₂ 55 ₆ 51 ₅ 51 ₆ 05 ₆ 03 ₄	1012-1058 1018-1034 1012-1034 1002-1014 1073-1118 1113-1118	15-14 1556 1456 1576-2676 14-1412 1414-1456 1414-1454	11-11½ 10 ³ 4 11 10½ 11 10½ 11 1068 1178 10½ 11 10½ 1078 10½	048 816 1834 646 046 1519 0-544 1846 016 644 1846 618 515 1176 016 046 1134

Asien 5 (closing miss in Dingspom): Short-term 2's-8's per pent; seven days 8's-8's per cent; one month 2's-8's per cent; three months 3's-8's per cent; three months 3's-8's per cent; like years 114-11's per cent; lour years 114-11's per cent; lour years 114-11's per cent; lour years 114-11's per cent; five years 114-12 per cent nominel rates. Short-term rates are call for U.S. dollers and Jepanese yen; others two days' notice.

Concern over interest rates

UK clearing banks' base lending rate 91-91 per cent

THE New Year did not begin well for the London money market, with short-term interest retes being forced higher by the fall of sterling to record lows

to move too quickly, particularly by Barclays Bank, where the present rate structure would certainly justify an increase on the bank's market related formula.

United Arab Emirates

Faced with the need to gain a consensus of opinion from its seven ruling families, the United Arab Emirates is finding it difficult to take resolute action to tackle the effects. of the recession

Period of confused internal affairs

by Michael Field

UNITED EMIRATES gives the Impression of being hurt worse by the oil glut than the other Arahlan by a few big buildings under construction, the Government's short of money—on the contrary it is still extremely rich—but that it is a federation in which the central authority is on their oil fields.

GAINST STER

not yet strong.
The rulers of the UAE, therefore, find it even barder than the rulers of the other oil producers to take resolute action to tackle the effects of the

The UAE's economic difficulties are manifold and very visible: In the last two years tha federal budget, which is supposed to run from January to December, has only been approved by the emirate governments in mid-summer after unseemly wrangling between the two rich members. of the federation, Ahu Dhabi

In both leading emirates and into liquidation. As a banker especially in Abn Dhabi, the remarked recently, "companies

ARAB stopped. For tha time being in Abu Dhahi the economy is being made reasonebly huoyant

> All of these operations keep money flowing into the private sector, but it is feared that when some of them are finished next year business will be very

Trading companies in the UAE as a whole report volumes of sales down by 30 to 50 per cent in the last two years, and their profit margins trimmed much more drastically. Contrac-fors and suppliers complain of late payments, which the Government admits.

- Many small trading companies have ceased to operate. though few have actually gone award of new contracts has in the UAE are like old

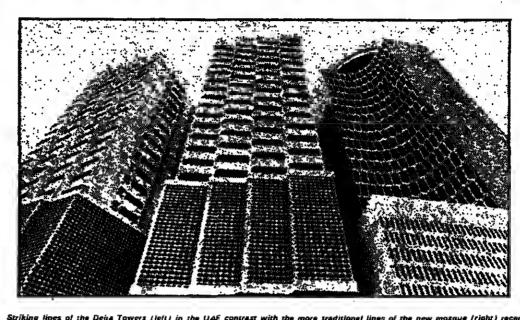
soldiers, since there is no bankruptcy law they just fade away rather than go bust."

the same position. There are two or three institutions which in the West would have been declared insolvent weeks ago but among the banking frater-nity of the UAE are regarded as "living dead."

Several of the banks are in

In reality the UAE economy is not in as bad a state as it looks. "There is a lot of money about, but nobody seems to have any," is how a senior Western manager in the country put it recently.

Dubai is still producing as much oil as it can—350,000 barrels a day—though the prices it is getting on the spot market must be lower than they were a few years ago. Abu barrels a day—though the prices it is getting on the spot market must be lower than they were a few ygars ago. Abu been paid on time if the Dhabi at present should be producing no more than 600,000 h/d if it is to allow for Dubal's production in the UAE's Opec federal finance ministry had received the funds due to it. quota of 950,000 b/d. But in received the funds due to it practice the state is thought to from Abu Dhabi and Dubai on



which is well above the level it

was producing in the summer. If these levels of output and current Opec prices are main-tained, during the next 12 months, the UAE will earn at least \$10bn from oil and at least \$2hn from gas sales and foreign investments. A total income of \$12bn is hardly inpopulation of only 1m.

The reason why this affluent using its resources efficiently, mies, they cannot compensate as even the most senior members of the Government readily admit.

The reel, underlying problem is that it has always been difficult for the UAE governments to tackle sensitive issues because to tackle sensitive issues because the content of the state appears to be financially vate schooling system. But embarrassed is that it is not however stringent its econo-

At a federal level, contractors,

The federal government, like the Abu Dhabi government, has vigorously and effectively cut its current spending by reducing the number of its employees, which means automatically making economies in rents, car allowances, and air tickets for expatriates.
It has also made a start to

reducing subsidies and the scale of the welfare state, by raising petrol prices and pushing foreign children into the pri-vate schooling system. But

To tackle these problems, the president of the federation, Shaikh Zayed bin Sultan al Nahayyan, last month ordered the establishment of a committee of members of the federal cabinet and the federal national council, the state's advisory parliament.

The committee's brief extends

the interpretation of commercial legislation and the lack of bankruptcy lew, which has made it virtually impossible for credidebtors' assets.

Whether the committee will radically change tha situation will depend on who will bead it and how much support it will be given by the Abu Dbabi and Duhai governments. Most pro-bably it will bave only a moderate impact.

cause it has to obtain the con-sensus of seven ruling families. has ben accentuated in the past three years by the lack of a prime minister at the bead of the federal government. Shaikh Rashid bin Said al

Maktoum, the ruler of Dubai, who agreed to become prime

the Arab sense of respect for the distinguished old dictates that he should not be replaced. Neither of Shaikh Rashid's interrupted.

Maktoum, and Shaik Hamdan bin Mohammed of Abu Dhahi, are politically energetic men. Consequently federal affairs bave tended to drift. There has not only been con-fusion over the hudget and a failure to introduce necessary

two deputies, his eldest son

new legislation. Several border disputes between emirates have remained unresolved. The gov-ernment has failed to take action to improve the security of its diplomats abroad, several or injured by Palestine ex-

Ever since the UAE was established in December 1971 it has been a maxim of its politics that the federal government is strong when Abu Dhahi and Dubai work closely together.

four sons run the state in his stead, the co-operation has been

This is partly because they and their followers are pre-occupied with domestic political uncertainties. These stem from the fact thet the Shaikh's eldest son, Maktoum, will succeed but will probebly not be the effective ruler. At the same time none of the sons is federally minded. They are reluc-tant to contribute more than they need to the federal budget allocation, and see no necessity to pay any money at all towards the federal deficit.

Until something changes in Dubai it seems likely that federal authority will continue to go through a weak period and the internal affairs of the UAE will remain confused.

This is unfortunate, but given the past history of the UAE it is something to which most citizens are resigned. It certo anything related to the recession, including differences between Abu Dhabi and Duhai in politically inactive since early well be worked intermittently crisis in the state's affairs.





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Downturn shows no sign of abating

Economy KATHY EVANS

THE DOWNTURN in the UAE THE DOWNTURN in the UAE economy which began in 1981 as the world oil market softened, shows no sign of abating. Local businessmen say somewhat pessimistically that the worse may be yet to come, and they ere predicting a rash of individual bonkruptices and difficulties with the banks.

Such stotements may seem

Such stotements may seem alarmist given the substantial wealth of the country's economy. Oil-based, with coneconomy. Oil-based, with con-siderable foreign reserves and no foreign dabt, the country's economy would seem to be in an enviable position. However, the UAE's underly-ing vulnerability lies in its reliance on oil and gas for the major part of its revenues, and here the future could look rocky indeed.

Abu Dbebi, the capital emirate, used to produce ebour two-thirds of the country's oil market. Its light Murban erude bas proved difficult to sell in the last 18 months, and the stete's overall production showed o decline during 1984 from around 800,000 b/d to around 600,000 b/d or even less during the summer and autumn

negotiations with the equity partners and o discount total-ling around 45 cents to direct buyers in mid-October, boosted Abu Dhabi's production in the last months of the year, but as 1985 opens, the emirate remains under severe pressure from its

oil customers.
Unless sympathy is shown for Abu Dhabi's situotion by Saudi Arabia and Kuwait (both pro-ducers of beovy and medium crudes), the emirote's oil out-put could fall even further until soch time as a price cut is ogreed on which satisfies the

market.
The oil minister, Dr Mana
Saced al Oteibo has olready
threotened unilateral price cuts threotened unilateral price cuts "with minimum violation" of accords by the Organisation of Petroleum Exporting Countries. Even the emirate's oil customers point nut that Abn Dbabi'e problems stem lergely from its loyalty to Opec, for other producers, iocluding neighbouring Dubai, have resorted to spot market prices to maintain output—or provided large, under the table discounts. Either way, Abu Dbabi's revenues can be Aho Dhahi's revenues can be expected to decline unless oil

demand picks up. It is Abu Dhahi's nll revenues which determine the climete of business activity in the country. for the emirate provides more than two-thirds of the federal 00,000 b/d or even less during budget each year. Second. its be summer and autumn own budget of Dh 21.7hn is lerger than all other federal.

The successful conclusion of and emirate budgets pot to-

to endure a virtual bolving of its oil revenues between the years 1981-83. During 1983 the federal government was able to trim its expected deficit from Dh 5.5bn to an actual figure of Db 4.4bn. However, Abu Dhabi had to fund the

Abu Dhabi had to fund the deficit that remolned, ond its own budget deficit went up from a projected figure of Dh 2.9bn to Dh 3.75bn by the year-end of 1983.

In 1984 the budget was published only in July, and finance ministry figures show that there is to be further trimming of is to be further trimming of the deficit to Db 4.3bn—2 20 per cent drop below the projected figure for the previous year. However, it is likely that the same pattern will emerge
—Abu Dhabl will have to pro-

—Abu Dhabl will have to pro-vide lump sums so that the federal ministries can get through the yeor.

The impact of such deficits has been dramatic. Ras al Khaimah is reported to suffer severe power shortages because severe power shortages because the federal finance ministry withholds payments to Emirates General Petroleum Corporation which feeds the emirate with fuel oil. The thousands of teachers and other civil servants go unpaid for weeks on end, the workforce continues to shrink as the number of projects dwindle, end imports have fallen by obout 20 per cent in the past year. But the most painful way the federal government bas had to resort finance its deficit is to delay payment to contractors and

Unbalanced

The hiatus in poyments has severely unbalanced the econo-mic future of many local companies and individuols. A significant portion of them are over extended to their banks.

There are many cases where companies are obviously long bankrupt, but the loans are still remaining on the asset side of bank balance sheets. While o merchant can run to

a sheikh for protection, the eir of unreality is maintained, and the merry-go-round continues tractor who picked up the bill for the time being. So far, at the end, or remained unpaid there beve been no major bank while the arguments continued. ruptcles resulting from non-payment from the Government. ecing just how hed "the good Such a move would be ex-tremely delicate for the authori-

put the hanking system under and implementation of a bank-some strain, and action is ruptcy law. As local business-clearly called for. Not surprismen are already arguing, you ingly therefore, the Government cannot disgrace a merchant and has turned to the Federal seize all his assets, when it may

seven-man committee to investiseven-man committee to investi-gate the country's economic ills together with members of the cahinet. The FNC members on the committee include leading businessmen from both Dubai and Abu Dhabt, and their report is expected within the next few months.

The move by Sheikh Zayed

has been greeted with a degree of cynicism from the banks ("When they have a problem, they form a committee "to use the words of one banker) but nevertheless local financial institutions concede that It represents at least the first formal recognition by the Government that there are serious economic problems. The minimum expectation is that at the very least, the formation of the committee could assist the cleoring of the backlog of

Over the past few months, there have been various pronouncements from the Govern-ment that the president is about to earmark Db 2bn for pay-ments to contractors and suppliers. Little has bappened since, and subsequent government etatements euggest that the amount may in fact be much

emolier, from Db 700m to Db 1bn The next question which will inevitebly arise is who are to be the beneficiaries of this delayed munificence. Priority is likely to be given to those sup-pliers still engaged in work for the Government, so that current work can be completed without further liquidity problems.

Merchants with good connec-tions ere likely to follow. Local businessmen are already erguing thet all dehts, even those in dispute, should be settled. During the peak of the boom when the race to develop was on, contractors frequently found themselves in dispute with government consultants over specifications and designs. Even the location of e project was frequently changed.

Working on a fixed price con-tract, it was usually the con-

old days" were.
Such sentiments will play a ties. significant role as the Govern-However, the situation has ment approaches the creation

gether. Any further closing of the oil revenue tap, and the country's economic difficulties will be compounded.

Already, the country has had to endure a virtual holving of the country has had to endure a virtual holving of the country has been requested to form o would appear to be in the compounded.

Among the issues likely to be raised are the lack of bank supervision, tha fixed price contracts which caused cut throat competition and suicide prices, and the recent delay in payments. All this, they say, has contributed to the boom and but the property which the bust phenomena which the Emiratee is experiencing.

Alermingly, this re-examina-tion of past events and accusation of past events and accusa-tions of neglect bave already led to suggestions that it is for the Government to bail out those merchants in difficulties. Among the suggestions which are emerging include 20-year loans at soft terms, and a cut-back on interest being charged by the banks.

Clearly, the transition from a cotton wool existence to a semblance of reality ie not going to be easy. After all, other Culf states have bailed out their merchants, and to do otherwise in the UAE may prove somewhat traumatic for the private sector.

Consumer demand

Not all the difficulties being experienced by local trading companies can be blamed on delayed payments from the Government, for most relied on a general rise in prosperity and growing consumer demand.
Present thinking of some
members of the FNC committee on companies which fall into this category is that if these concerns were cleerly overtrading and ill-managed, then they must suffer the normal

consequences — bankruptcy.
Business circles believe that many companies will be closed down, allowing owners to con-centrate on the few profitable ventures. The problem is that the banks are still carrying the can for the other companies.

can for the other companies.

It is at this point that the arguments for a boost in public spending can be heard the loudest, for merchants argue that if rents are to hold up, end consumer demand be etablised then the population and the climate of husiness activity must be maintained. However, with declining funds being with declining funds being earned from oil, it is difficult to eee bow spending can be maintained, let alone boosted.

Abu Dhahi businessmen are

already arguing that the Government should resort to borrowing on the international market. Bankers concede fantasies and needs of local

reflate the economy, and bas, instead, sought to live within its means. Officials and bankers alike point out that if there ere any further injections of

funds into the economy they ere likely to end up outside the country anyway.

This can be clearly seen in the rise of foreign assets of the commercial banks which went up from Dh 35hn at the went up from Dh 35hn at the end of 1983 to Dh 39.6bn by the middle of last year. This reflects the lack of investment opportunities within tha country and general uncertainty in the region with tha continuation of the Iran/Iraq

The Government therefore has to find ways to curtail its own spending to more modest income levels, without affecting the level of business activity internally. The current expen-diture budget would seem the most abvious target, as already forms the bulk of all

Defence is another erea which is already coming under scrutiny, but this has yet to translate into lower budgets. Defence is presently absorbing 50 per cent of the federal bud-

get. Cutting the current expendi-ture could be difficult, for the two main expenses, wages and electricity; subsidies, would prove the most sensitive areas to prune. Cutting the number of civil eervants would lead to a downward spiral in rents and consumer demand. Elec-tricity subsidies involve the delicate area of Abu Dhabl's relations with other emirates. Industry, too, is reliant on cheap power tariffs. However, the Government bes other considerations to bear in mind. A cut in the population would seem to be necessary on internal security grounds alone. Yet such factors are emerging

as the business community is beginning to realise just how reliant they are on a large ex-patriate community . Politically too, there ere other factors at play. While the federal government remains starved of funds, the result is a weakening of the structure. Now that the federal authoritiee can no longer dispense the

largesse around the emirates, its unifying role has been under-Overall, the UAE has to do some deep thinking about Itself and its economy. With less money coming in the economy market. Bankers concern that it would be the height of must inevitably shrink—unless, folly to initiate a national debt that is, the Government chooses to marely in order to sustain the to maintain a fairytale economy molitical reasons.

What merchant bank has over 60 points of contact throughout the Middle East?

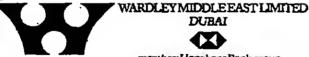
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Heavy expenditure on force which also plays unifying role

Defence KATHY EVANS

HAS BEEN a for security in bad the Attacks on ships in the region heve become almost a weekly affair, and the "tanker war" has heightened fears that the conflict in the north will spread to the Gulf states.
Until now it has been Kuwait.

with its proximity to southern Iraq, which has feetured most heavily in incidents, but Saudi Arabia bas also been engaged in the shooting down of Iranian planes over its territorial

While the involvement of other Gulf states in the war has been growing, the UAE has remained relatively safe from

Its location in the south of the Gulf is well away from the designated war zones of Iran and Ireq, and its Iranian "con-nection" has made for an unspoken veil of immunity.
On the one hand, Abu Dhabi continues to provide funds to fuel the Iraqi war effort (olbert on a reduced scale), while on the other its reletions with Tehran are the best in the Culf.

The trading connections through Dubai ensure o regular contact with the Iranian Government, and et the diplo-matic level, the UAE is the only country in the region to main-tain relations with Iran at amhassadorial level.

In addition, there are fre-quent high-level visits by senior quent high-level visits by senior mullahs and foreign ministry officials from Tehran to the Emirates; and regular mention is made of the president, Shelkh Zayed, being the most appropriate Gulf leader to head any CCC (Culf Co-operation Council) mission to the Islamic Council) mission to the Islamic

Despite this, the UAE main-Despite this, the UAE maintains one of the largest armies per percentage of the population in the world. Its armed forces total around 43,000 out of o population of some 1.2m. Defence is the largest single Item on the UAE hudget, with 1984's allocation officially standing at around Db 6.85hm (\$1.86bm) out of a total budget of Db 17bu.

any attack on the countryproviding sufficient time to alert other forces in the area. The figures can be deceptive though, for military experts believe that only about half of UAE'e armed forces are com-bat ready troops, the rest being administrative and support staft.

Moreover, the UAE army also has many other "jobs" in the

to citizens who were not absorbed by the national education system It is o force very much dominated by foreigners, for it has to compete for nationals with the police and the private sector. About 60 per cent of the forces are actually Omanis, and in addition, there are a number

country. It acts as a mechanism

to spread the oil wealth around

to nationals outside the urban

areas and it provides education

of Sudanese, Pakistani, Egyp-tian, Jordanian and British Netionals dominate the officer ranks, but there are faw below the level of Sergeant Major. And it is very much e part-time army. Most nationals in the ranks run their businesses in the after-noon, and Omanis take every Thursday off to drive home to

Muscat for the weakend.
But perhaps tha most important rola of the UAE ermed forces try to play is that of a unifying force intarnally. This ambition has to be cerefully balanced between the desire of each ruler to maintain his own security in bis emirate, and therefore major decisions are channelled through the ruling sheikhs first

officially, the UAE army consists of three commands, Western, Central and Northern, which in practice works out as Abu Dhabi, Dubai and Ras al Khaimah, respectively. Central headquarters are in

Central headquarters are in Abu Dhabi. Co-operation does go on at a certain level though. For example, if Ras al Khaimah wonts to send personnel for training, then Abu Dhabi, as the beadquarters, would pay for it. On the other band, all major decisions would be then but the decisions would be taken by the ruler's second son. Sheikh Sultan bin Saqr, designated commander of the Northern

of Dh 17bn.

Unofficial estimates say that the year's defence expenditure may rise to around Dh Ebn. Despite the size of forces, however, and the money lavished on them, few military experts expect them to play more than a holding role in the avent of the new school in Al Ain, Abu Dhabi.



Supplier nations are awaiting the outcome of the UAE's deliberations over the ordering of new military aircraft. The French have been working hard to secure a repeat order for 18 Mirage 2000s, while British hopes are planed on the Tornado (pictured above). The general concensus, however, is that the French will again prove successful in obtaining an order.

ment individually, though for-mal recognition of the federal structure may be given on the actual purchasing orders.

These minor symptoms of disunity, which have not proved important in the past, have become mora significant as the JAE is celled on to cooperate more with the other armed forces of the Gulf Cooperation Council.

Until now, it has only been Abu Dbabi's armed forces which beve participated in the various manocovres under the Peninsular Shield programme of joint exercises.

If the UAE central commend wanted to involve troops from say, Ras al Khaimah, then this would have to be negotiated in advance with the ruler.

"It's just politically quicker and administratively easier to use the troops from one force— Abu Dhabi" commented one expert.
Such factors are likely to

affect the UAE's involvement in the planned Guff rapid deploy-ment force (RDF), which was proposed at the recent fifth summit of the GCC. Most mili tary observers believe that the Culf states will earmark a number of troops who bave partici-pated in the joint exercises, to be their contribution to the

Civen that there has been no long history of joint manoeuvres between the various regional commands within the UAE, the country is likely to continue using troops from one force in future joint exercises with the GCC armies.
The need for real cohesion

of the UAE will become greater as the CCC armies coordinato more. The pranted future purchases of the Emirates would indicate that a national defence strategy has to be drawn up. At

Both forces order their equip- the moment, the country has no national navy or air defence early warning system which covers the whole state.

The proposed air defence system has eperked off intense competition between supplier netions. Britain is said to be pushing the AR3D system, the French are selling the Thomp-ston CSF equipment which has been so successful in Saudi Arabia and Kuwait. Other offers have coma from West

Germany and the U.S. The tanker war in the Gulf has given fresh impetus to the order, and a decision is expected to be made within the next six months. There is also a great deal of excitement among suppliers in regard to the order of two patrol boats for Abu Dbabi

Supplier nations ore likewise awaiting the outcome of the deliberations about the order of new aircraft. The French are working overtime for a repeat order of 18 Miraga 2000s. French officials decline to com-

French officials decline to comment on whether tha deal will contain an element of berter, involving crude oil, and only remark that the deal is an extremely "complicated" one. Britain meantime is hoping that the Tornado will attract attention, while the U.S. is too hampered by Congress for the UAE to consider the American alternatives, the F-15. F-16 or F-18. Tha general consensus is that the French will again prove that the French will again prove

Next year or so will see greater scrutiny over the ennual defence budgets, and already military suppliers say they see evidence of this, An order for tanks to replace AMX-30 was thought to be on the cards, but now has been quietly shelved. Missiles are the next item on the order hook, though that order may be rolled into the oircraft deal which may

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United Arab Emirates 3

هكذاصر الأعل

Key to system lies in nature of ownership

Banking MAGGIE FORD

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"IN one separate case the management of one bank failed to face its obligations . . . despite the direct and serious warnings sent to it by the Central Bank continuously. In order to stop the crisis of this bank from spreading over the banking reputation of this system, to pretect the interest of the
depositors in this bank and its
citents and to avoid any economic side effects which would
probably worsen during this
year, the Central Bank offered
iassistance to this bank according to the provisions of the
Central Bank Act.

Treputation of this system, to prewill fail, and a bank which
appears a little shaky may in
fact be as safe as houses.

The key to the system is personalities, family relationships
and influence with rulers. To
judge the position of a bank, it
may be wise to inspect not only
its accounts but the nature of
its ownership and board memsystem, to preserve the good troubla does not mean that it

changed. The new management of the bank was been further banks in difficulty in the UAE and it is not by any undertook to meet all the obligations of the bank. The Government of Dubal also undertook to guarantee and also u undertook to guarantee part of those aids offered by the Cen-tral Bank."—UAE Central Bank report 1983.

The above passage is the only reference in the Central Bank's report to the collapse and subsequent rescue of the Union Bank of the Middle East (UBME), owned by Mr Abdul Wahab Galadari, a leading Dubai merchant. It describes (if you know to what it is refer-ring) perhaps the most difficult and potentially damaging crisis the UAE financial and economic system has seen for many years.

Decoded, the passage might read like this: Despite being warned about the loans it had out to its chairman, URME falled to do any-thing about it. To stop it from collapsing and to preserve the

tion with the chairman's brothers, and installed a committee, beaded by the UAE Finance Minister, to run the bank. The ruling Maktoum family provided guarantees that the hank, and the brothers' bank would not be allowed to fail.

Such is the nature of the banking system, however, that just because a bank is in

In mid-November 1983 the bership For there have already management of the bank was changed. The new management bear further banks in difficulty

number of banks. A total of 102 banks, 56 of them local, operate in this country of 1.3m people. They have a total of 284 branches. The management many banks chasing a decreasing amount of husiness during amount of husiness during the recession is now showing up in lower profit figures and in dubious loans.

Stored, with head to a substantial ment are being squeezed.

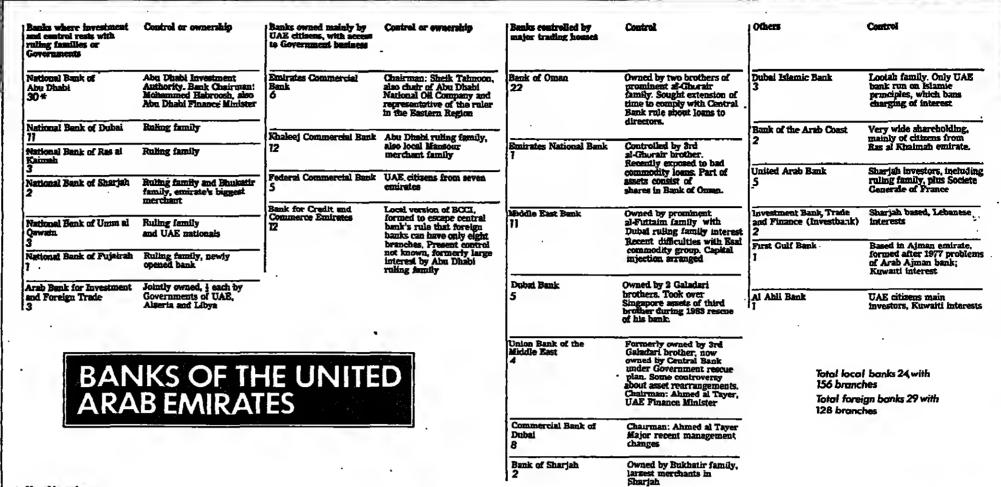
This has led to a substantial capital flight to take advantage of dollar interest rates, and has

Emirates National Bank, This bank has only one branch and is owned by Mr Majid al Ghurair, a member of a promi-nent Dubai merchant family. It bad a capital of Dh 132m (\$36m) at the end of 1983 and assets of Dh 1.1bn, of which 16 per cent were in the form of shares in the Bank of Oman.

The cost of this exercise to the Central Bank was approxi-mately Dh1.2bn (\$327m) and the ramifications of the exercise are still being felt in Dubai.

Lower profits

· Part of the problem is the



other brothers in the same family. When Emirates National suffered loan losses from the collapse of a Duhai-based trad-ing concern, Agra Enterprises, the solution was to sell the Bank of a dirham/dollar swap facility of Oman shares within the and another is the ending of family and to appoint a super-visory committee to run the bank. Mr al Gburair's bank remains open, as does UBME, reserve requirements. The though not run by Mr Galadari. are also being increased.

This type of difficulty is being compounded by the slowing of activity in the UAE. Far fewer costs and the lack of central projects are being commis-control which ensues from so sioned, oil income is down and

created severe difficulties for the central bank in controlling liquidity in the system.

An issue if Dh4bn in certificates of deposits (CDs) was not taken up by the commercial banks, who complained that the interest rate was too low. The issue was designed to reduce the capital outflow and to redistrireputation of Dubal and the per cent were in the form of butte liquidity to diose banks interests of depositors, the shares in the Bank of Oman.

Central Bank dismissed the This bank, much larger with deposits tend to be lodged with management, took over the main 22 branches, is owned by two the hig national banks.

Two other measures may have been more successful although they have been accompanied by strong protests from the banks. One is the ending interest payments on foreign currency deposited with the Central Bank as part of bank's reserve requirements. The latter

Difficulties

The problem with these measures is that they may increase the difficulties of the very banks they are designed to

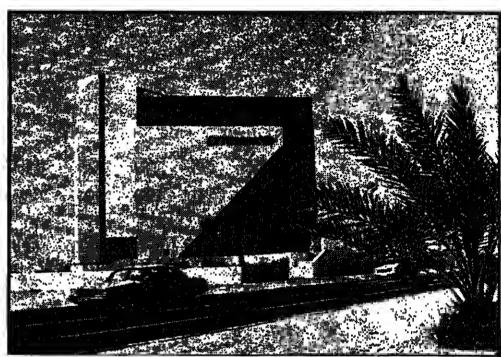
Bankers point out that the swap facility is a support for the smaller hanks and that the smaller banks could lose deposits to offshore banks by those wishin gto take advantage of the attractions of foreign currency accounts.

the emirates' governments due to its under charter, "We can-not even defend the dirham," complained one official.

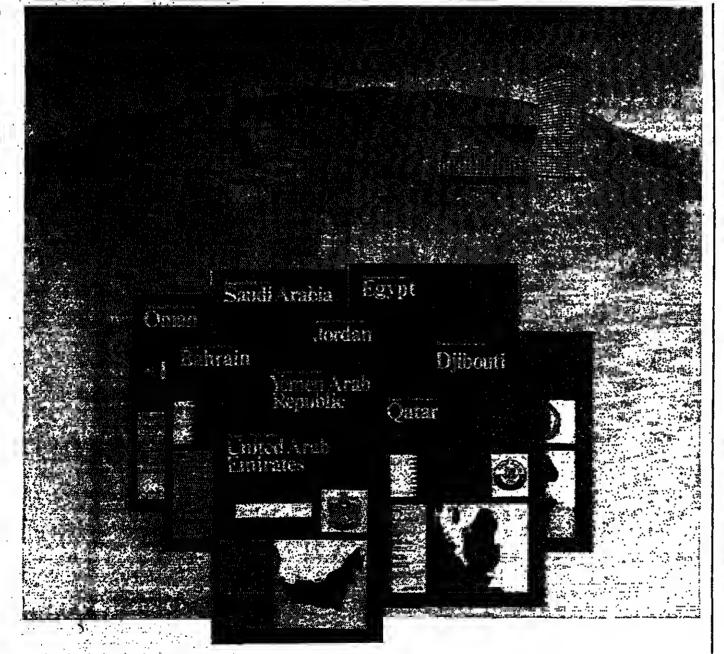
Its powers to enforce policies such as mergers depend on political consensus among indi-viduals. The bank has had some success in cutting the plethora of hranches—foreign banks are of hranches—foreign banks are now observing the regulation that they may have no more than eight. The rules limiting banks' loans to their own directors bave also mainly been complied with, albeit slowly, with some rescheduling required.

But the bank's main hope for reform—a series of mergers—is fraught with difficulty. The UAE lacks a hankruptcy law and suing for interest payments under Islamic law, which bans usury, is a practical impossi-hility. Ordinary court judg-ments are often ignored, although the embarrassment factor has been known to encourage some people to pay

This year may see the UAE's The Central Bank, bowever, little fanfare in a country where has little freedom of manoeuvre. For example, it has never been provided with the funding from tant consideration. The Central Bank may get its way, but it is likely that a cipher expert will still be needed to discover the fact.



The new head office of Citibank in Dubai-



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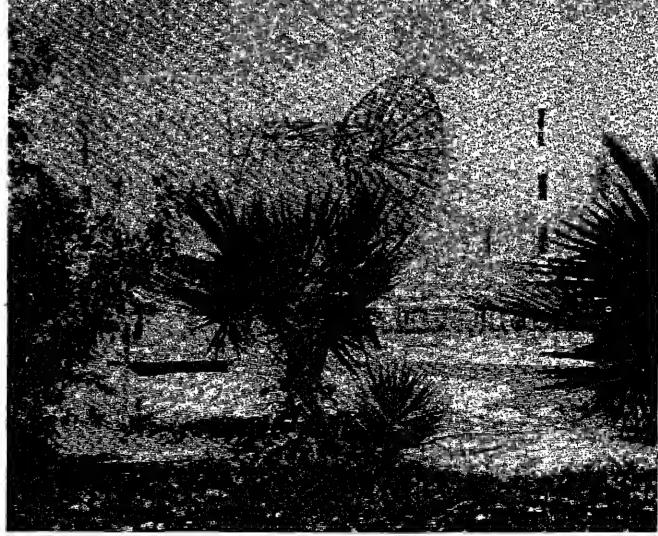
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ferentials are based are: Specific gravity—measured by degrees API, a measure-ment of the American Petro-leum Institute. Lighter crudes

havo a high API, heavier crudes a lower one. Abu Dhabi's onshore Murban crude is 34 degrees API.

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Abu Dhabi and OPEC: The Price Dispute

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Lighter crudes yielding a big-ger proportion of high value light products, such as gaso-line, are given a premium, beavier a discount, of 3 cents per degree API on each barrel. DURING the last two years Abu Dhabi's relations with Opec have been overshadowed by the problems of differen-

Price differentials between various Opec crudes, of which there are around 130, are based on the relative saleability of different grades of crude oil. They are an attempt to give each crude as equal Sulphur content — prices are reduced by 3 cents per additional 0.1 per cent of sul-Freight-prices are into give each crude an equal Freight—prices are increased for crudes produced nearer the markets, so that in theory the prices of all crudes should equalise in the market place. This system significantly increases the prices of Nigerian and North African chance in the market place. The criteria on which dif-

crudes. Differentials of Opec crudes are related to the \$29 per barrel Arabian Light "marker

Abu Dhabi's three major crudes, Murban, Umm Shaif and Zakum, are priced at \$29.56, \$29.46 and \$29.36 per barrel. They are light and relatively sulphur free, especially Murban.

Abu Dhabi maintains that its crudes are over-priced and that its production levels have fallen as a result. If it cuts its failen as a result. If it cuts its prices and raises its production, however, its galn will inevitably be at the expense of other Opec members—hence the controversy.

The problem for the Abu Dhahi is that lighter crudes no longer bave the advantage they have had historically. In the past, when most refining the past, when most refining worked on the basis of distillation, a physical process which produced light and heavy products in proportion to the make-up of the crude oil, light crodes were preferred by refiners because they produced higher grade products with a better price

This advantage has been eroded in the past two years or three years as more re fineries world wide bave brought on stream catalytic crackers. These operate a chemical process in which the beavier molecules in the hydrocarbon mixture that is erude oil are broken down and reformed into lighter molecules. In effect crackers make light products from heavy crude.

A contrast of policies

Abu Dhabi Oil Development

ANGELA DIXON

IN THE mid-1970s the oil policy of the Dhabian Government came firmly down on the twin foundations of conservation and delineation of reservation and delineation of reserves. This conservative policy contrasts with Dubai's more pragmatic approach where a very high rate of production is aimed at in the offshore fields, now estimated to have a remaining life. mated to have a remaining lifa of around 11 years.

Abu Dhabi's admittedly much Abu Dhabi's admittedly much larger fields bave reserves which, at present rates of production, should last well into the next century. Although there is no official figure for reserves, estimates place them at about 30bn barrels. The figure needs cootinuous upward revision, since fresh discoveries are still being made.

The 30bn barrels represents merely a fraction of the oll in place as it is based on an extremely conservative recovery factor of 20 per cent. An increase in recovery rates of as little as 1 or 2 per cent is thus worth considerable investment. The figure, moreover, does not include the vast reserves of the difficult Upper Zakum field. This field has low pressure, making the oil more difficult to

ADNOC decided to develop puted \$6hn. Most major projects to exploit oil and gas reserves are either complete or nearing completion. Investment in the oil industry on the scale of the Upper Zakum project is no longer attractive.

The only major active oil pro-ject at the moment—the en-

duction capacity from the entire onshore concession to 1m b/d, and is planned to be phased over a five-year period, starting with the Bu Hasa field.

The concession is owned 40 per cent by BP. CFP. Sheli, Exson. Mobil and Partex. ADNOC acquired its shareholding of 60 per cent during the mid-seventics.

ADNOC's chief executive, the Algerian-born Mahmoud Hamra-Krouha, has been known to express dissatisfaction with the way in which the onshore fields were managed by the former concessionaires. Primary recovery techniques

Primary recovery techniques such as dump flooding, which were standard practice in the sixties, were used. The company was dumping 650,000 h/d of water with 33 dump flood wells in the mid-Seventies.

Peak production from the Bu Hasa field was in 1977, when levels averaged 510,000 h/d. Since that time, the Government has progressively reduced the allowable quota from all the onshore fields, partly in line with its own policy of conservation, and partly in response to decisions by the Organisation of Petroleum Exporting Countries Petroleum Exporting Countries

Technical experts say that fields such as these, which have heen producing for 20 years, need to employ enhanced recovery techniques whatever the original recovery methods were. In the summer of 1984 Fluor Corporation was retained as the outside consultant to the

Some 200 dual-string wells will reinject water from deep underground strata into selected areas of the oil reservoir, thus enabling the more difficult oil to he recovered. The scheme was originally hudgeted at \$2bn. although that figure has certainly had to he revised

upwards.
Oil service companies tend to fect at the moment—the enject at the moment place at present in Abu

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The scheme also at the only
ject at the moment—the enject at the moment —the moment place at the international Petroleum Investment Corp THE International Petroleum

THE International Petroleum Investment Corporation (IPIC) was first mentioned publicly by the Abu Dhabi-National Oil Company in 1981. This investment body flually received presidential approval in May this year. It was incorporated in Abu Dhabi with a paid-up capital of \$200m and an authorised capital of \$500m, Share-holders are Adnoc with 50 per cent and the Ahu Dhabi Investment Anthority (ADIA) with 50 per cent. Both of with 50 per cent. Both of these institutions are 100 per cent Government-owned.

pany is to invest in petroleu pany is to invest in petroleum projects outside the emirate of Abu Dhabi. This could include projects in other emirates, as well as abroad. The type of investment envisaged might be the oil pipeline in Eujairah, though there are now doubts over the future of this particular project. project.

Adnoc claims that IPIC's activities will be modest to start with, but the new company is clearly modelled on part of the operations of the Ruwait Petroleum Corpora-

The alm of the new com-

such as standardisation or co-ordination. They like to project the corporation as a holding company for n group of some 20 odd subsidiaries, in which ADNOC has shares vary-

ing from 51 to 100 per cent.

The declared policy of ADNOC to manage all the major projects of its subsidiaries would give it much more control than would normally be exerted by a financial holding

company.

As project manager it usually controls, albeit indirectly, a far larger proportion of the operating company's expenditure than its shareholding alone would

warrant.
Viewed in the light of the nationalisation policies common in the region, ADNOC's policies are reasonable and understandable. Although the foreign partners may claim a negative cash flow in recart months as a result of the high official price of Abu Dhabl oil, their stake in Ahu Dhahi gives them

this serves to underline its detarmination to exercise close supervision over Abu Dhabi's their foreign shareholders, howsupervision over Abu Dhabi's finely foreign snarrholders, however, do not always see things in this light. As clients they which ADNOC's technocrata relish—they prefer to use terms such as standardisation or co-ordination. They like to with the arrangement.

ADNOC's project managers seem to view the relationship in the light of parent company visa-vis subsidiary rather than consultant visa-vis client. The minority partners consider this attitude is used to push through decisions without the consultation which might usually be expected in projects where contracts worth hundreds of millions of dollars are being awarded. awarded.

Internally, ADNOC has re-organised its structure, grouping its functions under major directorates Explora-tion and Production, Hydro-carbons Processing and Markat-ing, oll responsible to Genaral Management. Heading these departments, and in several other sanior posts, are a num-her of young nationals. This is a recent development and reflects tha success of the government's policy of training nationals to take their place in a valuable opportunity for running the oil industry.

Squeezed from several sides

Production levels

ANGELA DIXON

A WRITER once said of Ahu Dbabi, that the "air murmurs money." This money comes almost exclusively from oil.

The emirate has no trading history, and in the years since discovery of oil it has had little lucentive to trade in anything else. Abu Dhabi is first, last and always, an oil town.

The aquamarine sea which surrounds Abu Dhabi is dotted

with rigs, and during the past year a well being tested on an inshore island sent clouds of thick hlack smoke billowing across the city for a wbole day. It is hardly surprising that downward pressures on the oil price have heen closely price have heen closely monitored in the emirate, especially since the middle of 1984 when these pressures became acute.

By the end of 1983, govern-ment oil revenues in tha whole of the UAE had fallen by nearly 50 per cent compared with 1980,

statistics are not yet available, price, rather than, as at present, meeting the UAE quota was

Foreign major oil companies with equity partnerships in Abu
Dhahl, which market 40 per
cent of onshore, and probably
some 20 per cent of offshore
crude, reduced their liftings considerably. Their argument was that the profit margin allowed to them — \$1 per barrel—was no longer sufficient to provide an income. At least one company claimed that the cash flow on oil sales from Abu

the equity partners. The matter was eventually settled-but only temporarily. Equity partners, which include the major oll companies BP, CFP, Exxon, Mobil and Shell as well as the Gulbenkian interest (Partex) and the Japan Oil Development Company— (JODCO) have privately declared themselves less than satisfied with the hasis on which the new margin is calculated, and negotiations are scheduled to be renewed at the

scheduled to be released at the scheduled to be released at the statistics — from \$14.3bn to \$7.35bn.

Revenue figures up to June 1984 remained stable, but the fer tha margin to be related to whole year figures, for which a fixed percentage of the official

may well show a further the market price of oil.

decline. In that time Abu At the same time ADNOC's Dhabi's oil price found itself major customers. Japanese being squeezed from several trading houses, requested a directions at once.

drop in prices. A decrease of 50 cents for onshore oil and 60 cents for offshore oil was

agreed in principle.
At the end of November, the trading houses all had refused to renew their contracts for 1985 unless better terms were offered — a cut of \$2 per harrel was spoken of.

On the Opec front, Abu Dhabi struggled to get free of a strait-jacket of differentials and production levels which had devised situation DOW radicaliv changed. The

Government felt let down by what it saw as Opec's failure to address itself to the pressing problem of differentials. This was coupled with what were perceived as hidden discounts by other Opec members, in the form of freight and insurance advantages for North African competitors.

There were other practices which it thought left Abu Dhahi at a disadvantage in tha markets. Officials detailed the Saudi practice of mixing crudes

Although the issue of differentials remains a headache, production in 1985 will depend the issue of production levels in the sense of keeping within the Opec quota levels, has become less pressing.

Until the October 1984 Opec. ome less pressing. to I Until the October 1984 Opec sell.

1.1m harrels per day. Dubat has always taken an independent line and has npenly refused to be affected by Opec decisions, so a notinnal 350,000 h/d wasc set aside to ascount for its share. Abu Dhahi set itself a quota of 850,000 h/d.

The Opec meeting in October reduced the UAE quota to 950,000 h/d, but the position within the country has since become less clear, as the Government has made no statement on the distribution of the cuts and Dubai can be expected to continue producing at its usual rate.

Abu Dhabi was very probably within its assumed new Opec quota of 600,000 h/d over the four-month period from August to December. In August production dropped away dramatically. and although levels recovered in Seplember, they fell again during November.

The offshore fields which have a government interest, Lower Zakum and Umm shalf. at one time fell to what must be an all-time low of 65,000 h/d from an allowable of 215,000 h/d. These low levels were most

to achieve a more saleable noticeable during negotiations quality at the same price, and with equity partners for a new the Kuwaiti practice of processing most of its crude and being that the partners were selling the products effectively dropping their liftings to put pressure on the Abn Dhabi Government, Improved levels of

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Fujairah MICHAEL FIELD

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THE OLD Shaikh of Fujairah. Mohammad bin Hamad al Sharqi, who in his prime was a tough, independent minded spirit, was the last person in Arabia to be hombarded by the British.

In 1925 he not only refused to release a slave gir he had recently bought in Oman but insulted the British Political Resident of the same time. When he ignored the ultimatum

When he ignored the ultimatum he was given, the PR had e warship open fire on his fort. Decades later he surprised a visiting British diplomat, who had not heard of the episode and had tactlessly suggested that he ought to repair the towers, by accusing the official of having caused the damage the other day."

In 1952 Mohammad bin Hamad arranged for the British to recognise him as the ruler of his own territory—he had previously been the rebellious chief of part of the state of Sharjah.

As Shaikh of Fujairah be con-

As Shaikh of Fujairah be continued to run fils affairs on individualistic lines. He made the import of alcohol the bulwark of his treasury. He dealt with one of his enemies (or a criminal, according to another version of the story) by immuring him, laying the bricks and mortar with his bare hands and chuckling as he did so.

Fortunately, or unfortunately, depending on one'e point of view, Fujairah has become e more ordinary place since Shaikh Mohammad died in 1975.
Today it has a National Bank, an expanding port and a not very good Hilton Hotel.

Fujairah has prospered especially since 1980. Its Government has established, or belped to establish, companies to produce cement, rock and aggregate, marble, rockwool (e fireproof insulating material) and ceramics. It is intended that the rock of its mountains, which is its main physical resource, will be further exploited by a glass bottle plant, which it is hoped will be built by the multimational government sponsored Arab Mining Com-

estate company, which bas Fujairah Government is recently completed work on 16 hoping that its state's fortunes large apartment buildings. will be bolstered by several

hopes to start drilling in April or May, but the second bas made little progress and is likely to relinquish its acreage.

Most probably Meridian's area, the northern portion of Fujairah's offshore ecreage, will be offered again early in 1985. Other Fujairah acreage now available comprises two onshore

between 1979 and 1983 et a cost of \$75m and is run by tha Felixstowe Dock and Railway Company.

It has two berths for large container ships completed. A further two similar berths and some berths for coastal vessels are about to be built under an extension programme. Consul-tants for the project, and for virtually every other Govern-ment scheme in Fujairah, ere the Professional Group of Australia, owned by an English company, Mouchel.

by a glass bottle plant, which it is hoped will be built by the multinational government spongered Arab Mining Company, American President Lines, and has been to company agricultural projects, for chickens, fruit, vegetables and dairy production, have been established or are being built in the state: There is a Fujairah in the state: There is a Fujairah insurance Company, a building industries company and a real of the next year or so the state: Trading Company, a building industries company and a real of the port has been chosen as a distribution centre by one major company, American President Lines, and has been chosen as a distribution centre by one major company, American President Lines, and has been chosen as a distribution centre by one major company, American President Lines, and has been chosen as a distribution centre by one major company, American President Lines, and has been company, American President Lines, and has been pragmatic policies goes to the young Ruler and his brother, Shaikh Saleh. Both are common carrier distribution service run by the West Asia graduate of Hendon Police company uses it as a distribution centre of sheep, which are limited to company uses it as a distribution service run by the West Asia graduate of Hendon Police company, a Fujairah docks to make regular trips worthwhile and being able to find a reasonable supply of empty containers in Dubai to move back to the east coast. Shaikh Saleh. Both are company uses it as a graduate of Hendon Police is a gradu

Two effshore oil concessions further projects. These are its have been granted — one to own airport, which will be used the Lundin Group of Canada mainly for cargo, the Gulf Coand one to Meridian of Austraoperation Council strategic food
lia. The first company has reserve, which is to be placed
finished its seismic work and outside the Gulf for security reasons, and the Abu Dbebl-Gulf of Oman oil pipeline.

This last project, for which the survey work has been completed, is talked of in Fujairab as a virtual certainty but in Abu Dbabi now it is hardly mentioned. The line would This last project, for which bave no economic edvantage for Abn Dhabi, only e possible strategic convenience.

The most important of all In the last five years or so Fujairah's development profugirah has been counted a success because it bas pursued its development along sensible and economical lines. When working on its industrial and mining schemes which it has had to finance itself — as opposed to the social and smaller opposed to the social and smaller infrastructural projects financed by the federation — it has built on a project at a time and used the revenue from the scheme just completed to help pay for

the next.

The state has not embarked on over-optimistic projects (except perhaps the airport), nor put its faith in any of the exotic development formulae exotic development formulee espoused unsuccessfully by the other northern emirates, nor run up large debts which it has expected Abu Dhabi to pay.

It has incurred Abu Dhabi's goodwill not only through its sobriety but through its federal-mindedness. One never sees the emirate own flag flying in Frigiral only the flag

ing in Fujairah, only the flag of the Federation. The state's own meagre revenues, mostly from the port and its mining schemes, are supplemented by money from Shakh Zayed, who visits the state every year the Abu state every year, the Abu
Dhabi Fund for Arab Economic
Development and, it is thought,
the Abu Dhabi Investment
Authority.

The Ruler, Shaikh Hamad bin Mohammad, has good links with the Presidential Chamberlain, Shaikh Surour bin Mohammad al Nahayyan, who supervises the foreign investments of both Shaikh Zayed and the Abu Dhabi

مكذاصر الأعل

The main street of Fujairah

of his own people and relations with the Federation, and Saleh runs the state's economy.

of the UAE.

It may also be that the idee of transhipment will fast gather momentum. As more shipping lines build very large container vessels which they will want to To supplement the Government's development spending. Saleh bas leunched the Fujairah National Group, an entreprensurial operation whollyowned by himself, which interests in commercial projects. keep sailing for as much of the year as possible on their trunk routes, the principle of transhipping more into small vests in commercial projects
that are beneficial to the state.
In the long term Shakh
Saleb's schemes may become
controversial, possibly with
other members of the ruling vessels and using them for dis-tribution becomes more financially attractive, even though it involves e greater number of loedings and unloedings. family, because be seems likely Obviously the more shipping lines the port can attract the more transhipmant cargo it will accumulate and the more calls it will receive from local ves-

family, because be seems likely to reap considerable profits from them. For the time being, bowever, be is investing entirely in Fujairah to the obvious advantage of the population.

During the next few years it seems that Fujairah's development will hang in the balance.

On one hand the Abn Dhabi pipeline project and the GCC (Gulf Co-operation Council) food store may go ahead, and the port may ettract more traffic. Under this scenario more lines would decide to use Fujairah as e distribution On the other band it is pos-sible that Fujairah's development will stagnate. The pipe-line and the food depot may not be built, for reasons entirely beyond Fujairah's control. The airport may prove a failure, both as e cargo centre and as a land-ing place for package tours, some of which it is boped will Fujairah as e distribution centre, the Gulf war would con-tinue and the state's own exbase themselves in Fujalrah as the UAE tourist industry begins to gather momentum. ports through the port would Likewise the port's traffic may

simply not develop. It might suffer the same fete as the smaller Khor Fakkan port, a few miles to the north, which iost its only transhipment cus-tomer, Mediainer, et the end of Also the roed route to Dubai would develop, with truckers finding sufficient cargoes at the Fujairah docks to make regular

windows open on the

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Greater exploitation of agriculture

Ras al Khaimah ANGELA DIXON .

OPTIMISM has a guarded air in the emirate of Ras al Khaimah these days. A gas/ condensate find which was expected to boost the economy has so far only partially done so, while cash-flow problems at Federal level have begun to show their effects here—as in all the northern emirates.

Ras al Khaimah is the most Ras al Khaiman is the most age. Replacement is not keepmorthly of the emirates facing in up with use, and so the
the Guif. Its population of water is becoming more and
70,000 comprises a majority of more saline. Even tap water,
local Arabs, many of them of more saline. Even tap water,
which comes from the wells, is
Iranian origin. Picturesquely not suitable for drinking. Yet
situated around its lagoon at, there are no plans for a
the foot of the Mussandam desalination plant. One reason
mountains, the town of Ras al is that it would be too costly
Theirarchie desard with the for this emirate's floavest to the foot of the Mussandam mountains, the town of Ras al Khaimah is dotted with the date-palms which give their name to a section of the town

possible here, because the mountains behind have colmountains behind have col-lected rainwater which gathers beneath the ground and is accessible by means of wells. Recently it has become more commercially exploited. Dig-dagga dairy farm supplies fresh milk to other emirates as well as Ras al Khaimah, and temperate climate vegetables have been highly successful. bave been highly successful. Citrus fruits are a recent

Ras al Khaimah's water supply, so dependable in the days of mule-power, is heavily utilised in e more mechanised age. Replacement is not keepfor this emirate's finances to bear.

ame to a section of the town A scheme for a reverse al Nakheel osmosis desalination plant, to Agriculture has always been heve been commissioned by the

Federal Ministry of Water and thum holding the remainder.
Electricity, was shelved due to Income is divided on a 50-50 budget cuts.

Locate the federal Ministry of Water and thum holding the remainder.

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Locate the federal Ministry of Water and the federal Ministry of Water and the federal Ministry of Water and Ministry of budget cuts.

formed by the Government to investigate the water and power needs of the northern emirates, and the onestion of Ras al Khaimah's water supplies may well be high on the agenda The aquifers cannot be expected to lest for more than another ten years if they continue to be

sewerage programme. This would also be a costly business, though covironmental standards are closely adhered to and the coastal waters are cleaner than most others in the Gulf.

Ras al Khaimah has its own electricity authority, whose independence is carefully guarded. During the summer of 1984 a minor crists in fuel supply occurred. The state is supplied with fuel for its power stations and industries by the Emirates General Petroleum Corporation (EGPC), e federal body which has responsibility for product distribution in the

The Ras al Khaimah Government ergued that it was unable to pay the required (subsidised) to pay the required (aussidised) price, and fuel supplies were temporarily cut off. The matter seems to have been amicably resolved, and Ras al Khaimah now receives federally-supplied fuel free. Since September some of that fuel comes from the Sajaa field in Sharjah, for the distribution of which EGPC has constructed a niceline net-

Ras al Khaimah's cement companies ntilise gas from the Rak bas agreed to feed its gas into the EGPC plpeline if

The field, which has been pro- central government. ducing some 6.000-7.000 b/d of the is strongly pro-federation condensate and 50 mmscf/d of (which his father has not gas, is let to a consortium consisting of Gulf Oil, Petrokal, bonds between the emirates as the German company Winter-the best bope for the future-shall, International Petroleum He feels that a much more Corporation of the Canadian prominent and useful role based Lundin group, and a could be played by the Supreme

National Oll Company quently, but Sheikh Khalid (RaKNOC), in which the feels that when it does meet Government holds a 50 per useful decisions are invariably cont interest, with the consormade.

Recently a committee was marketing alternate cargoes. A loan of \$125m was raised by a consortium led by the National Bank of Ras al Khaimah and Citibank to help finance oil production. The oil is costly to produce — perhaps \$12-15 per barrel, which is natural et depths of 15,000ft, in 300ft of water.

Regular trips

utilised at present rates.

Ras al Khalmah bas no sewerage programme. This would also be a costly business. December 1984 was selling for \$26.75-27 per barrel. Govern-ment income is around 72 per royalties at 12 per cent

The Emirate has one of the deepest harbours in the Gulf and exports cement, aggregate and rock to places as far apart as Ruwait and Diego Garcia. Export figures for the first nine months of 1984 were down by 12 per cent on the previous year, but had recovered somewhet towards the end of the year, while imports through Mina Sagr rose commensurately with the requirements of the fiedgeling oil industry. Kuwaiti investment is clearly

evident in Ras al Khaimiah; for example, the Gulf Pharme-ceutical Co and several insurance companies bave con mitted money in the state. Guil' Cement, one of Ras al Khaimah'e cement companies, has a strong Kuwaiti shareholding and exports mainly to that state. However, recent cash-flow probhas constructed a pipeline netlems there heve affected exports of this commodity. The Ruler of Ras al Khaimah.

Sheikh Sagr bin Mohammed al state's recently-discovered off- Qasimi, is one of the longest-shore gas/condensate field, reigning of the Gulf sheither which came on stream early in 1984. EGPC gives Ras al Khaimah standby facilities for the cement plant, and in return the cement plant and in ret

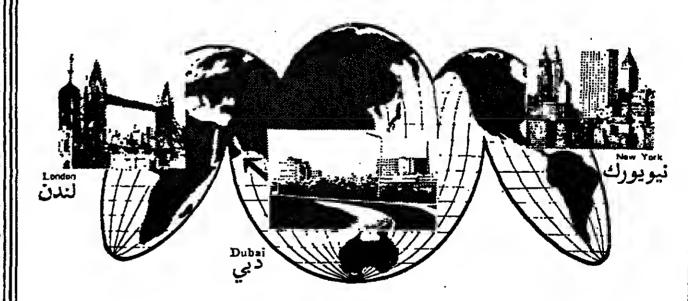
His eldest son, Sheik Khalld, is one of the brighter person-If Sharjeh gas is ever used in the cement plants they will pay et the full rate, that is \$3.50 per the U.S. be takes a personal the U.S. be taken a personal the mbtu. For gas from the state's interest in RaK's affairs at s own field the plant pays at one half the market rate.

The U.S. De takes affairs at s interest in RaK's affairs at s day-to-day level. Some diplomats think it a plty that his mats think it a pity that his Ras al Khaimab's gas comes from the offshore Saleh field, a Federal level, but as yet be of which so much is hoped. has no official role to play in

Taiwanese company, Overseas Council, the body which con-Petroleum and Investment. sists of the rulers of all the Ras al Khelmab set up a emirates. This meets infre-

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Family rules in collegiate style

Dubai Politics MAGGIE FORD

THE UNITED Arab Emirates is the kind of place where enormous political significance can be found in a set of architect's drawings and where the showing of a horse race on tele-vision can cause public dispute and religious indignation. Politics are not revealed in

Politics are not revealed in either the Western parliamentary sense or in the Eastern bloc central committee sense, but are played out within the ruling families. The younger generation of these families is now in the process of exercising more power, and in Dubai, this has led to some uncertainty about the future.

The old ruler. Shekk Rashid

occasionally consulted about matters of state by his eldest son and beir apparent, Sheikh

Much of the important deci-sion-making in Dubai, bowever, is done by Sheikh Mohammed, Sheikh Rashid's tbird son, and it is the doubt about who will be in actual control that has led to some worries in recent years.

Senior voice

From 1971 to 1979 Sbeikh Maktoum was Prime Minister of the UAE, a job wbicb his father reclaimed when Dubai decided that it needed Federal money and when it was felt that a very senior voice was needed to speak

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stir was drawn up in London for a new office for the Crown Prince, to be built opposite the present Ruler's office beside Dubai's famous creek. Contracts are expected to be awarded sbortly and building work to be started within months.

The new office is expected to

be accompanied by an expended staff for Sheikh Maktoum, including Sheikh Mana, a member of the family who is both his cousin and his wife's brother, as the head of his secretariat. He may also obtain the services of Mr Kamil Hamsha, head of Dubai municipality, as a principal

adviser.
Sheikh Mana, aged about 40, ruling families. The younger generation of these families is now in the process of exercising more power, and in Dubai, this has led to some uncertainty about the future.

The old ruler, Sheikh Rashid bin Said al Maktoum, hes relinquished decision-making to his sons, although he still bolds his majlis, where people can attend to petition him, and is Sheikh Mobammed had pre-irred to appoint his own men ally marketing the percentage of the oil sold by the Govern-Sheikh Maktoum is liked for ment on the spot market.

bis generosity and kindness and although he has been slow to take responsibility for specific tasks, he is thought to be intelligent and sensitive to the attitudes of the people. A suggestion that he plans to take up the role of Federal Primc Minister again may indicate that his apparent shyness and reserve is waning, but be is Transactions are made by telex from his British adviser's home be made by telephone if be is abroad.

his

Very little Information is available about Dubai's oil affairs — Sbeikh Mohammed would only say that the emirate's production is between 250,000 and 550,000 barrels a day. Industry estimates suggest a level of 360,000 b/d — if reports that the Government sells 50 per cent of the production are correct, that would reserve is waning, but be is sull nothing like as forceful a figure as his brother Mobammed. Sheikh Mohammed at present holds most of the reins of power in Dubal in a pair of hands thet tion are correct, that would mean that Sheikh Mohammed is are very capable and becoming personally administeriog income of around \$1.75bn a year. increasingly experienced. He is UAE Defence Minister and in charge of police and security in

It is clear that he bas gained a technical and marketing knowledge of a complex subject Dubai, an especially important that few citizens of bls country

Dubai, an especially important post in any Gulf state.

Sheikh Mobammed also controls Dubai's oil, which generates the majority of its annual income of around Db 15bn (\$4.1bn). He bas taken asken "The Boss," as he is known by his expatriate advisers, has also taken a keen interest in the financial and business affairs of the emirate, which are the main portfolio of Sheikh Rashid's second son, Sheikh Hamden.

Took charge

When the Union Bank of the Middle Esst, owned by Mr Abdul-Wahab Galadari, e memper of one of Dubai's great trading families, found itself in trouble in 1983, Sheikh Hamdan

the face of impending ruin.

generally reckoned to have acted quickly, firmly and sensibly in a situation which could have badly affected Dubai's reputation as e trading and financiel centre.

In the defence area be has also been active, acquiring a good reputation as a negotiator in a number of recent hijack crises in the region. If it is shown that the hijackers who took over e Kuwaiti airliner and killed an American hostage in Tebran late last year boarded the aircraft in Dubai, he will be greatly displeased that such a loopbole has been exposed. The defence portfolio can be quite a tricky one to manage in the UAE, because of the different attitudes of Abu Dhebl and Dubai, the federal

When Abn Dhabl decided to buy 18 Mirage 2000 fighters from France last year in a deal worth \$450m, for instance, the views of Dubai do not seem to heve been heard. This can, of course happen in other areas. Recently the view in Abu Dhabl that Dubal should con-

It was Sbeikh Mobemmed who took charge of arranging the bank's rescue, e job in which a number of hard decisions bad to be made, especielly when people reacted badly in the face of impending rais

Although the ramifications of that bank's problems may not yet be over for the Dubai bank-ing system, and the handling of the formal decrees announcing the rescue raised some eye-brows, Sheikh Mohammed is



Sheikh Mohammed bin Rashid al Maktoum

tribute towards the national while he is still elive. budget deficit does nnt appear to have been beard in Dubai. The question of horse racing illustrates the problems that face all rulers of the emirate—the problem of falling oil revenues putting a squeeze on funds, the difficulties of reconciling a westernised development allow with a population world. The Dubai bnance dement plan with a population that is oriented to religion and partment consists of three officials, petroleum affairs advisers

tradition and the matter of the future style of government.

The sons of Sheikh Rashid are all enthuslastic ebout horses. They have set up a sub-stantial stable based mainly in England and are keen to con-tribute to the improvement of

British racing.
Although the business has required substantial investment in the early stages, it is already showing good returns—between showing good returns—between them Sheikhs Hamdan and Mohammed won over £700,000

in one year elone in prize money without counting future revenue from breeding.

Although, as a business, the Maktoum family's horse investments look fine, they can have other connotations in this part of the world. The revelation that a particularly fine horse, with an appropriate \$10m price tag had been added to the stable at a time when some contractors were experiencing delay in pay-ments from the Government provoked a certain amount of

comment, for Instance. The difficulty reletes to the lack of distinction in the emirate between private and public money. This system has been inherited by the brothers emirate between private and public money. This system has been inherited by the brothers from their father and it may be very difficult for them to change things, should they want to,

Sheikh Rashid always kept firm control over the purse strings, making most financial decisions himself with assistance from e few advisers. To this day, bls policy is reflected in what must be one of the smallest bureaucracies in the

number two, there is one foreign investment adviser. To change this system, described by one adviser as "an oasis of sanity" and by most people as extremaly efficient, would require great care end could be a mistake. But an incould be e mistake. But an interesting comparison can be made with neighbouring Abu Dhabi, where the ruling femily

takes e percentage of the oil income for its own spending which is adminstered by e Management

Although figures are not released, there appears to be less doubt about the nature of that emirate's economic manage-

ment.

Horse racing disputes have also cropped up in the religious and traditional area, a particularly sensitive one. It was perhaps unfortunate thet e particular race was broadcast live by satellite on television during Ramadan, the month of fasting that ell Moslems should

observe.

is thought likely, perhaps through the medium of Sheikh

Maktoum's new office.
Those close to members the ruling family stress that government decisions are made on a consultative basis with s
"duty Maktoum" always present and in charge: Although it
is clear thet much power rests with Sheikh Mohammed, most people in Dubal do not feel that there will be any more eway from the collegiate style while Sheikh Rashid is still alive.

The Maktoum femily has n reasonably peaceful recent tradition and the fect that all four sons have the same mother (Sheikh Rashid's only wife, who died two years ago) should mitigate egainst the kind of rivalry which has riven other Gulf ruling families, sometimes in

deedly fashlon.

Both Sheikh Mohammed and Shelkh Maktoum have their fans; one merchant, asked which mallis he attended, replied "all three"—Sheikh Rashid's as well.

His comment reflected both the fact that age is a matter for respect in the Arab world, and that a certain amount of hedging of bets mey be occur-ring for the future. Sheikh Rasbid's sons are thought to exhibit separately different parts of their fether's person-ality, and both Sheikh Maktoum and Sheikh Mohammed are said to be keen to act in a similar way to their father, who pre-sided over a decade of huge change with considerable

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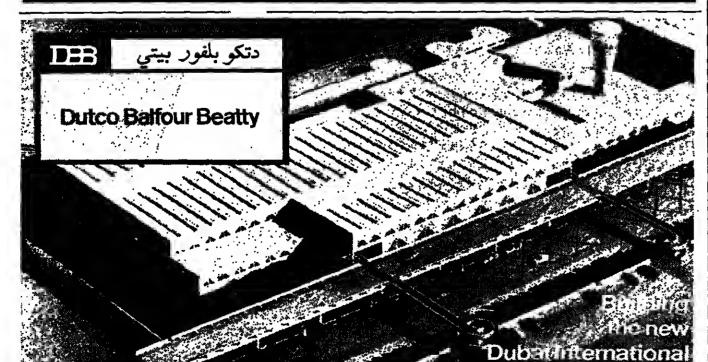
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Dubai Trade MAGGIE FORD

A SMALL HOLE, perhaps a foot in diameter, marks the entrance of the missile through the ship's bull. The steel is the ship's bull. The steel is puckered at the edges but the real damage is inside. The engine room is a burnt-out shell the decks are fire blackened and the giant oil tanker is fit only for the scrapyard.

Other victims of the Gulf "tanker war" will survive. One small oil surply ship hit by an "tanker war" will survive. One small oil supply ship hit by an Iraqi missile has an intact engine room, although no trace was ever found of the bodies of her captain and first mate, on deck when fire engulfed the

A third victim, e Very Large Crude Carrier, is to be cut in half, its undamaged part linked with a sound section of e similar ship. The work will be done in Dubai Dry Dock, where a number of ailing tankers hit by Iraqi or Iranian missiles are now being taken for repair.

The dry dock, macro in con-The dry dock, macro in concept though it is, provides in microcosm an example of the way business in the UAE is now having to operate in the wake of falling revenue from trade (due mainly to tha Gulf war), a slow oil market and nearcompletion of the construction work of the past 10 years. In the dry dock, designed specially for giant supertankers, none of which have yet been built, one could see late last year an Iranian fishing trawler. So small was this boat that it was not economically

that it was not economically worthwhile to empty the drydock so as to repair it, and frogmen were hired for the job. Rarely can they have had so much space to accomplish their The attitude of using all

resources, no matter bow minor that usage is, to gain some income and employment, is income and employment, is spreading in Dubai in the face of the recession. There is no point, it is thought, in gearing up for a big Job and keeping the workforce unproductively waiting for it, if they can be employed usefully in the meantime; especially if the big job

a doubtful one. Large merchant families are tending to take the same view. Although Dubai has almost completed its infrastructure some contracts were available last year, including a sewage scheme costing Dh 850m (\$231m), road

and tunnel construction worth

Gulf war takes its toll

Db 417m and the expansion of the airport with a second ter-minal (Dh 111m). But most companies are beying to look towards servic-ing the local economy for at least part of future earnings. Better management techniques are being introduced, so that expensive stocks are not kept, and fewer immigrant workers

are being employed. Some com-panies are looking abroad for expansion although this devel-opment is in its early stages. Import statistics The slowing ie reflecting in the import statistics. Less contractors' equipment, machinary and vehicles was imported last year although some kinds of building materials

such as cement and pipes showed an increase. Watches, gold jewellery and alectronics were all down. In the first six months of 1984 the value of imports at Dh 8.7bn was down 14 per cent on the same period of 1983, when the figure was Db 10.1bn. The main fillip for the Dubai trading economy would be an end in the Gulf war, it is generally agreed.

It is a sad paradox that the ability of the Dubai dry dock written off a few years ago as a white elephant, to report an operating profit in its first year is partly because it is eitracting husiness from a wer that is otherwise a disaster for the region.

otherwise a disaster for the region.
Business would be even better for the dry dock, of course, if the war ended end shipping was not subject to attack. A large number of crippled ships ewalt repair in Iranian ports which would provide an excellent boost for the dry dock if hostilities were to

In the past few years the effects of the war have been felt particularly in Dubai which has strong historical tinks with Tran. Some of Dubai's leading merchants have Iranian backgrounds and the country is the

largest market in the area. In the first six months of 1982 Dubai's re-export trade with Iran plummeted to Dh 89m but has shown a steady improvement since then reaching Dh 326m in the first six months

of last year, The neture of the trade has changed since the introduction of the Islamic regime and now is mora likely to consist of food and machinery or transport equipment rather than the cos-metics, electronic consumer goods and cigarettes sold during the Shah's reign

But if the Iranian market was stable last year re-exports gen-erally were almost 20 per cent down, falling from Dh 2.8bn in the first six months of 1983 to Db 2bn in the same period of

A fall in the silver price cut this trade with India to the bone, and stricter controls on that country's coastline affected

smuggling. Much of the economic ectivity in Dubai is related to Government spending and the emirate has not suffered the type of serious payments delays to contractors as has Abu Dbabi.

projected to increased as pro-duction from the Marghan gas and condensate field comes on

Dubai pursues its own inde-pendent oil policy and it is un-likely that any of the production cuts agreed within the Organisation of Petroleum Petroleum Exporting Countries will affect its output. Nor does it have tha difficulty with differentials that is affecting sales of Abu Dbabi light crude which is thought to be overpriced com-pared with heavier grades.

Running deficit

Income last year from oil was probably Dh 12.6bn out of a total income of between Db 14bn and Dh 15bn. Dubal is supposed to contribute 50 per cent of net oil incoma to the Federal budget, itself presently running a deficit, but this is likely to remain a bone of contention.

Such are the differing styles Much of the economic ectivity in Dubai is related to Government, with Abu Dubai is related to Government, with Abu Dubai having a civil service bureaucracy and Dubai having has not suffered the type of serious payments delays to contractors as has Abu Dubai.

This is mainly because its income from oil has remained reasonably constant and is even Such are the differing styles of Government, with Abu Dubai having a civil service bureaucracy and Dubai having only e few advisors, and such is the money is spent are likely to be a perennial feature of UAE affairs.

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Disputed border holds up deals

Dubai & Sharjah Gas MAGGIE FORD

LATE IN 1980 Sharish's onshore oil concessionaire. Amoco, made a gas and condensate discovery which has revolutionised the state's economy. The company is already exporting some 60,000 barrels e day of condensate to its own refineries in the U.S. and to arm's length customers to be a condensate. in Japan.

of the gas, at present a small proportion, about 80m cubic feet a day, is being used by power stations in Sharjah, but most is being flared, lighting up the night sky of much of the northern UAE. As from next year the bulk of this will be fed into a grid covering the other northern emirates, Ras al Khaimah, Ajman, Umm al Qalwam and Fulsirah.

Some gas will remain, however, and an obvious use for

ever, and an obvious use for gas at Dugas's plant and sold—and is Itself flaring gas while this wasted asset would be to Sharjah is still building a compressors are tested, extend the pipeline network liquids extraction plant which (Dubai could, of course, use to neighbouring Dubai, which will not be ready for some time, gas from the Marsham field to is currently spending 75 per cent of its budget on electricity generation. Officials estimate that running the generators on gas rather than fuel oil would save Dubai Dh 2,5m (\$681,000)

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General Petroleum Company (EGPC), which markets all petroleum products within the with the Dubai Petroleum Company.

Negotiations proceded on the basis of price. EGPC had already signed a contract to pay Amoco \$3.60 per 1,000 cu ft or the gas being supplied to the cother Emirates but this was felt too high by Dubai, which pointed out that the average price in the U.S. was below \$2 per 1,000 cu ft.

Sharjah pointed out that a higher price could be justified of the company that could be extracted from the condensate and ducing 20,000 b/d of condensate well be all that is needed.

Solution, talks on which may or may not be in progress. This relates to a border dispute or may not be in progress. This relates to a border dispute or may not be in progress. This relates to a border dispute or may not be in progress. This relates to a border dispute or may not be in progress. This relates to a border dispute or may not be in progress. This relates to a border dispute or may not be in progress. This relates to a border dispute or may not be in progress. This relates to a border dispute or may not be in progress. This relates to a border dispute or may confident that it will receive gas supplies from somewhere, to spend Dh 38m on the conversion of 5 turbines to run on dual fuels and to buy new gas its own and considers a strategic resource for the future when its and a moving of the border a little in Sharjah's favour may well be all that is needed.



will not be ready for some time.

Dubai countered with the argument that a wasted asset was would mean that it would be ment that a wasted asset was worth nothing anyway to Sharjah

company which would receive were made about the pipeline the gas, and the Emirates contract, which would be worth General Petroleum Company between \$15m and \$25m. There.

able to extract less of the valuable condensate. It prefers to reinject the gas under high

gas rather than fuel oil would save Dubai Dh 2.5m (\$681,000) (\$681 been played this summer. Arco Dubai, the subsidiary of Atlantic Richfield which operates the Margham field, spudded a well



Sheikh Zayed bin Sultan al Nahayan

Rulers and Government of UAE

Rulers are Members of Supreme Council ABU DHABI: Ruler: Sheikh Zayed him Sultan al Nahayan.

Deputy Ruler and Crown Prince: Sheikh Khalife bin Zayed al Nahayar.

Ruler: Sheikh Rashid hin Said al Maktoum.

Deputy Ruler and Crown Prince: Sheikh Maktoum bin Rashid al Maktoum.

SHARJAH:

Ruler: Sheikh Sultan bin Muhammad al Qasimi.

Deputy Ruler: Sheikh Sagr hin Muhammad al Qasimi.

RAS AL KHAIMAH:

Ruler: Sheikh Sagr bin Muhammad al Qasimi.

Deputy Ruler and Crown Prince: Sheikh Khalid bin Sagr al Qasimi.

AJMAN:
Ruler: Sheikh Humaid bin Rashid al Na'lmiFUJAIRAH:
Ruler: Sheikh Hamad bin Muhammad al Sharqi.
Deputy Ruler: Sheikh Hamad hin Saif al Sharqi. UMM AL QAIWAIN: Ruler: Sheikh Rashid hin Ahmad al Mn'alla. Deputy Ruler: Sheikh Saud hin Rashid al Mu'alla.

FEDERAL GOVERNMENT Head of State: President Sheikh Zayed hin Sultan al Nahayan, Ruler of Abu Dhabi. Vice-President and Prime Minister: Sheikh Rashid hin Said al Maktoum, Ruler of Dubai.

First Daputy Prime Minister: Sheikh Maktoum hin Rashid al Maktoum. Second Deputy Prime Minister: Sheikh Hamdan bin Mohammed al Nahayan. Finance and Industry: Sheikh Hamdan bin Rashld al Maktoum. Interior: Sheikh Mubarak hin Mohammed al Nehayan.

Defence: Sheikh Mohammed hin Rashid al Maktoum. Economy and Trade: Saif Ali Jarwah. Information and Culture: Sheikh Ahmed bin Hamed. Communications: Mohammed Said al Muslia.
Public Works and Housing: Mohammed Khalifa al Kindi. Education and Youth: Fraj Fadhil al Mazrouie.

Petroleum and Mineral Resources: Dr Mana Said al Oteiha.

Electricity and Water: Humaid Nasser al Owais.

Justice: Abdullah Humaid al Mazrouie. Public Health: Abdul Rahman al Madfa.

Agriculture and Fisheries: Said Mohammed al Ragahani.
Ministry of Planning, described as vacant. The Acting Minister
is Said al Ghaith. Nominated for the job, but not yet appointed. is Humaid al. Mu'alla. Labour and Social Affairs: Khalfan al Roumi. Islamic Affairs and Awqaf: Sheikh Mohammed nih Hassan al Khazrajl MINISTERS OF STATE Finance: Ahmed Humaid al Tayer,

Internal Affairs: Hamouda bin Ali Dhairi, Cabinet Affairs: Said al Ghaith. Supreme Council Affairs: Sheikh Abdul Azziz bin Humaid al

Qassimi. Foreigu Affairs: Rashid Abdullah al Nuaimi. Without Portfolio: Sheikh Ahmed bin Sultan al Qassimi.

Oil and gas finds boost state's income

in Sharjah has transformed the emirate's financial status, the economy now showing slow but

sure progress.

Strating from a lower wealth base than the other emirates, Sharjah has not been so damaged by the recession.

Old debts, notched up hy the Covernment are gradually being paid off, and may now only amount to around \$400m, exchiding the loans taken with o guarantee provided by Abu Dbahi

The dehts are largely owed to contractors, for work undertaken in the emirate, local banks and in respect of syndicated borrowings.

By 1986, Sharjah could be

showing a modest surplus for the first time in many years. Revenues from condensate and gas are estimated to ba \$350m to \$425m for last year, based on a production average from the Sajaa field of about 45,000 b/d. Output from the field is presently about 60,000 b/d, and is not included by the UAE in its Opec quota. The revenue is derived entirely from taxes and royalties paid

the Sharjah government. There has not been the boom in Sharjah which is normally associated with the discovery of hydrocarbons. The emirate's commercial sector

has always had a tighter time than other states in the union,

than other states in the union, and local hanks have always been slightly more conservative.

Rents are still falling in the emirate, and a luxury villa can be picked up for Dh 60,000 (\$16,300) a year, the price of a modest apartment in Ahu Dhabi, Local banks also reports resinable deep in letters of a noticeable drop in letters of credit, and major contracting firms are said to be packing their bags, leaving bebind representatives to collect debts. Expenditure by local govern-

ment has been kept at fairly modest levels, say bankers edmiringly. There have been some small projects started on the east coast, a dam is being built by McAlpine, and the Emiri Gnard has been in-creased. But otherwise, revecreased. But otherwise, revenues beve been put to paying gas to local power stations in off all of the emirate's creditors. The arrangement

syndicated loan made by a dies comes.

Sharjah KATHY EVANS

group of Japanese banks for the government's sbareholding in a LPG (Liquid Petroleum Gas) facility. This time, no guaran-tee was needed by Abu Dhabi. The Sajaa find has not only brightened Sharjah's economic prospects, but it has provided a certain degree of political muscle, particularly when it comes to dealing with its neighbour. Further

bour, Dubai. Dubai has expressed interest in constructing a pipeline from Sharjah to pump gas from the Sajaa field to Dubai's local power stations. In Dubai's view, this would preferably be done before Sharjah goes ahead with its own LPG plant. Sharjah, bowever, is looking for a price of around \$3.50 per million BTU's, arguing that it is willing in return to allow Dubai to sign a pay-for-what-you-take agree-

Alternative

As one Sharjah official com-mented "Our argument is that by Amoco, which bolds an old-style concession agreement with we bave provided and huilt a facility to provide gas for a two month peak." (Electricity demand, and therefore gas, demand peaks in the summer months with the use of air conditioning). This is because ditioning.) This is being offered as an alternative to a straight commitment to buy a constant amount.

Dubai's response so far is to offer \$0.50 per million BTU's. Unofficial sources indicate that some compromise could be struck between the two, over territory which may include a slice of the Margham field. The Margham field in Dubai has long heen the subject of a dis-pute between Duhal and Sharjah.

The future direction of Sharjah's gas sales are irretrievably bound up with federal politics.
In theory, Emirates General
Petroleum Corporation has a
monopoly over the distribution of gas when it is replacing fuel oil in power stations. Sharjah officials say they are

An indication of the new is supposed to be only temporary confidence with which international bankers see Sharjah ties of the federal government came recently with a \$30m from which the money for subsi-

Sharjah's only other customer for the gas is Ras al Khaimab, for the gas is Ras al Khaimab, but here, EGPC pays Amoco (the owner of the gas) the equivalent of \$3.50 per million BTU's and charges Ras al Khaimah \$4.50. However, money to pay the hlH has heen slow to come through from the federal government and Ras al federal government, and Ras al Khaimah power stations have been forced to close for up to

seven bours a day. Local economists in Sherjah despair of such developments "If we don't use the gas today it won't be the gas today it won't be bere tomorrow. There wouldn't be these difficulties if there was a federal energy policy for the whole country," commented one official. In the meantime, the omcial. In the meantime, the gas from the Sajae field con-tinues to be largely flared, pro-viding a spectacular sight for desert drivers for miles around. Another possible user of Sharjah's gas is Shedco, a semigovernment limited liability company established to encourage industrial development in the emirate.

Shedco's only project so far is a steel pipe manufacturer, in which Saeed Khoury of GCC has a 20 per cent stake.

The plant was only commis-sioned in July and has already received orders from Adnoc. However, Shedco is also investigating various industries which could use Sharjah'a gas as feedstock.

So far, these attempts bave heen abortive, largely because of disputes on the cost of tha feedstock. An ammonia project with C and F Chemie ran into trouble when the French com-pany said that It would only accept to pay \$0.50 per million

BTUs cost. The minimum Sharjah said It would go to was \$1.50. However, another project for a carbon black plant is being studied by Stone & Webster with a Swiss company. Cerbon black is used for newsprint.

Another project under study is a carbon monoxile plant, Altogether Shedco is currently studying five industrial plants, and was recently successful in luring Hyundei to the emirate, Hyundai is planning an elec-trical pipe fectory with a view to re-exporting to the Gulf, Pakistan and India.

Sharjah's other major indus-try is tourism, and European, mainly German, tourists con-tinue to flock to the emirate in search of guaranteed winter



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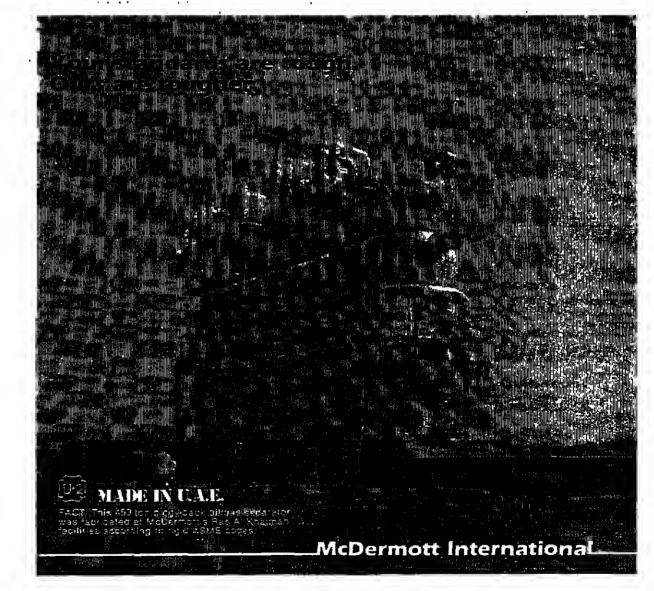
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United Arab Emirates 8



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Gas Projects

Several major gas projects in the UAE became operational in 1984. Angela Dixon has compiled the following list which shows these and other gas schemes, including gas development and supply projects, and industries using gas as feedstock.

Abbreviations: b/d-barrels per day. mmsc//d-millions of standard cubic feet per day. ADNOC-Abu Dhabi Notional Oil Company. ADCO-Abu Dhabi Company for Onshore Operations. AMDA-OPCO-Abu Dhabi Marine Operation Company. JODCO-Japan Oil Development Company.

ADGAS

(Abo Dhabi Gas Liquefaction Company Ltd.) Ownership: ADNOC 51 per cent: Mitsul and Mitsul Liquefied Gas 241 per cent; BP 161 per cent: CFP 81 per cent. Produces Liquefied Natural Gas (LNG) and Liquefied Petroleum Gas (LPG). Share capital: \$105m.

Construction: Bechtel/Chiyoda. Began 1973, completed 1977, cost \$500m. CBI Constructors Ltd. are building three new LNG and 3500m. CBI Constructors Ltd. are building three new LNG and four LPG storage tanks on Das Island with overall project cost of \$550m ADGAS raised an syndicated loan of \$500m in 1883 to help finance this project. Completion scheduled for 1985. Raw materials: Associated gas from the offsbore fields of Zakum and Umm Shaif; for the past two years, while production from the fields has been low, cap gas from the Uweinat condensate reservoir has supplied 50 per cent of feedgas. Some associated gas is also received from Al Bunduq oilfield.

payment for raw materials: Three gas payments, one of which is profit-related. The other two are for use of facilities. These consist of a fixed fee (\$16m for ADMA-OPCO and \$63m for ADNOC), plus a small variable element.

Products and capacity: Two liquefaction trains are designed to

LNG: 2.3m tonnes a year Propace: 650,000 tonnes a year. Butane: 520,000 tonnes a year. Pcotanes plus: 220,000 tonnes a year. Recent improvements have raised the capacity of each

train from 150 tonnes to 185 tonnes an bour.

Marketing: Products marketed by the company with the excep tion of Pentaines Plus, which is marketed by ADNOC. Tokyo Electric Power Co. (TEPCO), is committed under a 20-year Agreement to purchase 2,057 million tonnes a year of LNG and 500,000 tonnes a year of LPG. Pricing: Official Murban crude price in \$ per barrel converted

to \$ per pmatu plus a freight element. The latter works out at around 20 per cent of the price. Price at time of writing is around \$5.25 pmbtu. Price automatically rises and falls with price of Murban.

Government income: Profit-related gas payment mentioned above paid to ADNOC. Tax of 55 per cent is payable after expenses, Remainder goes to shareholders pro rata.

GASCO

(Abu Dhabi Gas Industries)

Ownership: Shareholders: ADNOC 68 per cent; Shell 15 per cent; CFP 15 per cent; Partex 2 per cent.

Construction and financing: On etream September 1981. Construction management by Bechtel and Fluor. Cost \$2.1bn. Project was financed 20 per cent share capital, 80 per cent by loans. \$1,6bo loan from Abn Dbabi Investment Authority (ADIA). Occ repayment schedule of 7½ years, the second (for \$400m) over 10 years. A further \$25m was raised through the National Bank of Abu Dhabl to finance capital expenditure in 1983.

Raw materials: Associated gas from three onshore oilfields, Bab, Bu Hasa and Asab. Extraction plants at each of these fields separate gas from oil, then separate methane from NGLs. The former goes into ADNOC's methane system, the latter are sent to Ruwais for fractionation into LPG, and exported. A \$150m project at the Bu Hasa plant was recently completed. Expected to bring extraction rate up to the levels of efficiency of plants at Bab and Asba.

Payment for raw materials: No charge for the gas. ADNO pays oothing for methane.

Design capacity and products: Fractionation plant designed to produce Propane, 24,000 b/d; Butane, 28,000 b/d; Pentanes Plus, 42,000 b/d. Plant was designed for a throughput of one million b/d for oil. Oil production quota reduced to 500,000 b/d in March Onsbore fields have recently averaged as little as 360,000 ammonia and urea for export. b/d. GASCO's production accordingly affected. Efficiency of Payment: ADNOC charges between \$3.5 and \$4.00 pumblu. extraction has been improved so as to raise the percentage of gas Design capacity: 1,000 tonnes per day of ammonia as well as 1,500 recovered to around 97 per cent.

Product prices: Going market rates, related to Saudi prices. Marketing: Done by individual shareholders. Shell and CFP sell

Government income: ADNOC, Shell and CFP have five-year tax boliday. Thereafter all three will pay tax to government on tonne: bas been \$110 per to profits and will make supplementary payments beyond a certain Government income: Five level. Operating costs include quite beavy loans service charges. bolders receive dividends.



The new ADGAS headquarters on the Abn Dhabi Corniche built by Costain International

DUGAS

(Dobai Natural Gas Company)

Ownership, construction and finance: Owned 100 per cent by Dubai Government. Operated by Scimitar Oils. Construction by McDermott loternational. Oo stream April 1980. Cost \$500m Finance cotirely guaranteed by Dubai Ruler, In 1984 Dugas completed a US\$140m expansion to its gas recovery scheme. Raw materials: Associated gas from Fatch and South West Fatch fields offsbore plus unassociated gas from condensale reservoirs below offshore Rashid field. Production esparated at an offsbore separation plant, resulting NGLs and dry gas pumped to Jebel Ali fractionation plant.

Ali fractionation plaot.

Price of raw materials: Gas provided free. Methane transferred to Duhai Aluminium (DUBAL), without charge.

Capacity and products: Initial capacity was 100 mmscf/d. 1984 expansion has increased that to 250 mmscf/d. In late 1984. 150-155 mmscf/d of inlet gas was being processed—along with a content of around 14-000 b/d on NGL to produce \$25-850 tonnes per day of propane, 600 tonnes per day butane and 850-900 tonnes per day of coodensate. Residue gas used as fuel amounts to 105-110 mmscf/d. This eupplies around 90 per cent of Dubai'e (i.e. Dubai Aluminium) fuel requirements, and around 5 per cent of Dubai Electricity Company's requirements.

Marketing: By Scimitar, Emirates Gas Bottling Co, takes small amounts, Five-year contract with C. Itob for LPGs, to be renewed 1985.

Price: Negotiated price formula which takes account of market

Ownership: Company formed 1980, with a capital of \$75m ADNOC 86.6 per cent; CFP 33.3 per cent.
Construction and finance: Chiyoda banded over to Fertil end-August 1984. In 1983, a \$70m facility was raised to finance part of the construction, with a grace period of 18 months, to be repaid thereafter in approximately fourteen semi-annual instalments.

Raw materials: Project designed to utilise gas from Abu Dhabl's onshore fields both as fuel and feedstock, in the manufacture of

tonnes per day of urea, from a consumption of 1.3mm cu. metre per day of feedstock.

Marketing: First shipment was made January 1983. Fertil markets own shares of output. ADNOC markets own and Parter's share. own product. Cootracts have been negotiated with India, for Most Propane and Butane sold to Japanese under medium term one-half of production (up to 225,000 tonnes per year), and China (about five years) contracts. Heavier NGL'e used as light oil for a progressive increase up to 30,000 tonnes per year, product in shareholders' own product marketing system or sold Mitsubishi has agreed to purchase the remainder. The latter two cootracts are for seven years. Pricing: Follows market. Fourth quarter 1984 price was \$175 per

tonne; bas been \$110 per tonne. Government Income: Five-year tax holiday from startup. Share-

THAMAMA

Ownership, construction and finance: Owned 100 per cent by ADNOC. Design engineering and construction management by Fluor Corporation, at a cost of around \$450m. On stream April 1884. Financed by ADNOC.

Raw materials: Non-associated gas from the Thamama C structure of the onshore fields.

Cornelity and products Can enthanted waters 50 km.

of the onsbore fields.
Capacity and products: Gas gathering wystem 50 km long on the Bab field and processing facilities at Habshan. Four separate trunklines connect 19 gas wells. Sweet gas from the processing plaot is sent to Ruwais and Abu Dhabi for use as fuel and feed-stock for utilities and industries through existing gas lines of ADNOC'e methane grid. Design capacity: 450 mmscf/d gas throughput producing 375 mmscf/d of sweet gas, 4,500 b/d of NGL, 26,000 b/d of stabilised condensate and 800 tons/day of granulated sulphur. Peak gas production from Thomama C was 350 mmscf/d in August 1984. Expected peak for 1985 is

Operators: ADCO operates the gas gathering section, ADNOC the remaining facilities.

Pricing: ADNOC charges the fertiliser factory. FERTIL, at Ruwais around \$4 pumbtu for feedgas and fuel and charges \$3.50 mmbtu to WED (Water and Electricity Department) for the use of fuel gas from ADNOC's Methane System, of which Thamama C now forms a part.

Government income: Savings achieved through diminished use

SHALCO

(LPG Plant Sharjah)

Ownership: Shareholding as follows: Sharjah government, 60 per cent; Amoco Sharjah, 25 per cent; Tokyo Boeki and C. Itoh, 71

per cent each.

Financing and construction: Cost of construction around \$300m. There is a debt-equity ratio of four to one, i.e. 80 per cent debt. 20 per cent equity partners' finance. The major part of the 80 per cent debt is to be met by Japan's Eximbank. Sharjah raised \$30m five-year credit to cover its share of the investment. Construction: Turnkey contract to Japan Gasoline Company. Began on 27th October 1984 with the foundations for the two tanks at Hamriya port, one for propane and one for butane. Expected completion date 1986. There will also be a new port at Hamriya for loading the products.

Raw Materials: Gas from the Sajaafield.

Payment for raw materials: A fixed fee, plus a small variable element based on profits will be paid to Amoco—Sharjah.

Capacity and produces: Expected to produce 13,000 b/d of mixed LPGs, 7,500 b/d of propane and 8,000 b/d of butane. The plant will also produce an extra 1,500 b/d of condensate, due to more

will also produce an extra 1,500 b/d of condensate, due to more

efficient extraction.

Marketing: C. Itob has agreed to dispose of product to its own outlets on a take-or-pay, ten-year basis.

Pricing: Formula based on prices in the region, basically Saudi. Government income: Government'e own equity shareholding, plus royalties on the fee which LPG Shalco will pay Amoco Sharjab for extracting. No royalties payable on products.

MARGHAM FIELD

(Gas/Condensate Development: Dubai)

(Gas/Condensate Development: Dubai)

Ownership, construction and finance: Concession owned 2/3 Arco
Dubai Inc., a subsidiary of Atlantic Richfield, and 1/3 by Britoli
(since 1981), Gas/condensate discovery made May 1982. Construction: gas gathering network designed by Fluor Corporation.
Contractors Dodsal, Mina Jebei Ali Construction and CCC
Wescon. Cost of around \$600m financed by partners,
Capacity and products: Gas and condensate, Gas produced at
around 350 mmscf/d, now being flared. Condensate—25,000 barrel
per day, Gas will be reinjected to optimise recovery of condensate. Gas comes out at 2,200 psig, is reduced to 800 psig for
extraction of NGLs, then pressurised through two \$20m compressors to 7250 psig for reinjection. Twelve wells drilled to
Mergham structure. Drilling to recommence in 1985. Dry hole
at Kubai 1984.
Design capacity: The system has a design capacity of 350 mmscf/d

Design capacity: The system has a design capacity of 350 mmsel/d of gas from which the condensate is sent along a 40 km pipeline to Jebel Ali where the storage tanks and a loading terminal are situated from whence it is exported. 400,000 barrels exported in November. Taken by Mitsui of Japan, who have contracted for a further 400,000 in December. Contracts still in the negotiating stage until qualities of condensate are assessed.

Marketing: Companies pro rata.

Pricing of output: Negotiable.

Government income: Tax and royalties. Said by officials to conform to practice in the region, ie, 85 per cent tax, 15 per cent

Territory: A portion of the Margham field lies on laud which the Sharjah government considers to be south-western Sharjah. There have been reports that an Amoco seismic team was arrested by Dubai authorities in 1982. Although an arbiter was appointed and made a decision on border, the matter bas not yet been resolved. Development of gas from Khuff Zone at Umm Shalf (Abu Dhabi) Ownership, construction and finance: Abu Dhabl Government owns all gas in the emirate; development will be ADNOC's responsibility 100 per cent. Contract awarded to Bechtel UK in 1984 for engineering on Khuff development beceath Umm Shaif. Estimated to cost around \$80m. Drilling to the Khuff is very expensive because of depths of 15,000 ft plus, ADMA-OPCO has already drilled four wells to the Khuff under Umm Shaif. Gas has a methane content of 85 per cent. H25 content of 1.5 per cent, CO2 content 4 per cent.

Development plan: Present plan is to reinject Khuff gas into the Uweinat reservoir at Umm Shaif, Uweinat is a condensate reservoir with a gas cap. The latter has been used hitherto to

supplement associated gas as feedgas from offshore fields to the ADGAS LNG plant. Present plan will allow this practice to continue while maintaining pressure for condensate extraction. It is expected to have the added edvantage of avoiding the need for extra facilities for extracting impurties from Khuff gas.

Government income: ADGAS will continue to make gas payment as at present.

KHUFF EXPLORATION

Khuff gas exploration (Abu Dhabi)

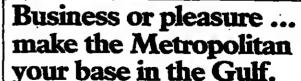
Zakum: Concession. ADMA-OPCO (60 per cent ADNOC—142 BP; 131 CFP; 12 JODCO). Khuff gas has been encountered at Zakum. Drilling carried out by ADMA-OPCO. Decision not to

develop as impure.

Abu al Bukhoosh: Concession: CFP 51 per cent; New England Petroleum Exploration Co. (U.S.) 24.5 per cent; Amerada Hess 12.25 per cent; Sunningdale Oil Co. 12.25 per cent. One well drilled to Khuff Commercial quantities of good quality gas. Another well being drilled by Zakum Development Co. on this

sion ADCO (60 per cent ADNOC; 40 per cent BP, CFP, Exxon, Mobil, Partex and Shell). Commercial quantities found at Hail, an offshore artificial island. Drilling carried out by ADCO. Onshore Khuff has been disappointing, with three dry

Satah: Concession UDECO. Shareholding: ADNOC/JODCO 50/50. One well drilled to Khuff. This will be reinjected to the oil-bearing strata when the field comes on stream early 1985, with a planned 25,000 b/d.



Dr Mana Said al Otaiba, the

UAE's Minister of Petroleum and Mineral Resources





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In The United Arab Emirates



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EGPC

(Pipeline network to northern cmirates power stations and industries: Sharjah

Ownership, construction and finance: Amoco Shariah (subsidiary to \$ per pmbtu plus a freight element. The latter works out at of onshore Sharjah from the Sharjah government. Gas and condensate discovery made late 1980 on the Sajaa field Production owned by Amoco Sharjah, Owner of the gas pipeline network is the Emirates General Petroleum Corporation (EGPC), EGPC is 100 per cent federal government owned. Authorised stare capital \$818m. Paid np \$109m.

capital \$31gm. Paid np \$109m.
Cost of network: \$190m network financed by a loan of \$32m, raised by EGPC, the rest by means of supplier credits.
Construction: Consultancy: Pipeline Engineering GMBH of Frankfurt, Construction by Dodsal of Frankfurt, begin 1983. Sharjah's Layreh and Dhaid power stations now receiving around 80 mmscf/d. Power stations in Ras al Khaimah, Ajman, Fujeirah and Umm al Quwain in process of being hooked in.
Payment for raw materials: Amoco Sharjah has agreed with EGPC a price of \$3.50 pmmbtu until 1987. Thereafter it will be fuel oil energy equivalent price less one dollar.
Capacity and products: Condensate at around 60,000 b/d is being produced and exported by Amoco. About 80 mmscf/d of this

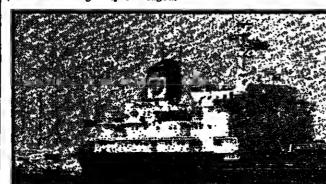
produced and exported by Amoco. About 80 mmscf/d of this is used by power stations in Sherjah, a minor amount is piped to Ras al Khaimah and the rest is flared. In future it is intended that this gas will go partly into the EGPC grid and partly to the Shaleo LPG plant. Gas production capacity of the field at present is around 40 mmcf/d from 15 producing wells.

Marketing Under discussion. EGPC provides gas to Ras el

present is around 40 mmet/d from 15 productog wells. Marketing: Uoder discussion. EGPC provides gas to Ras al Khahmah, free; other emirates not clear as yet. Gas to be paid for at cost to EGPC by Federal eubsidy. No payments as yet made at time of writing. Condensate: Amoco Sharjah takes up to 50 per cent for its own refineries in the U.S. The remainder is sold to customers, mainly Japanese. Pricing of output: Under discussion. As above, Coodensate oricing follows market trends. At time of writing (December 1984), around \$26.85 per barrel.

Government income: Government receives royalties (44 per cent)

Government income: Government receives royalties (41 per cent) and tax (77 per cent) from Amoco. Federal government will be enabled to export Abu Dhabi diesel oil now being used, and in addition will cut down on fuel oil imports. Total savings of \$261m were originally envisaged.



BP tanker moored in front of the DUGAS plant at Mina Jebel Ali